



Professional Monitor Family Catalog 2012

PVM Series OLED / LMD Series LCD Monitor

Broadening the Lineup

– Sony Expands its Range of OLED^{*1} and LCD Professional Monitors

Building on a long history as a leading supplier of high-definition technology products, Sony offers professional monitors in a variety of types and sizes, suitable for a wide range of applications in the studio and in the field.

Sony is now proud to add to its professional monitor lineup two models of organic light-emitting diode (OLED) picture monitors: the 24.5-inch^{*2} PVM-2541 and 16.5-inch^{*3} PVM-1741. These TRIMASTER EL™ Series monitors inherit technology from BVM-E and BVM-F Series OLED master monitors, and offer top-end picture monitor quality.

The PVM-2541 and PVM-1741, as well as the PVM-740, incorporate the Sony OLED panel with unique Super Top Emission OLED technology, and deliver superb picture quality – outstanding black performance, quick response with virtually no motion blur, and a wide color gamut...in a way that is unachievable with LCD technology.

Along with these brand new TRIMASTER EL OLED picture monitors, Sony continues to enhance its widely acclaimed professional LCD monitor lineup – the LMD Series. The latest additions include LMD-51 Series 3D monitors (LMD-4251TD^{*4} and LMD-2451TD^{*5}), LMD-41 Series slim-bezel compact-design monitors (LMD-2341W^{*6}, LMD-2041W^{*7}, and LMD-1541W^{*8}), and LMD-10 Series excellent cost-to-performance entry-level monitors (LMD-2110W^{*9} and LMD-1510W^{*10}).

This broad and powerful professional OLED and LCD monitor lineup continues to meet the broadest range of application needs, from broadcast and post-production, to surveillance and demanding semi-professional applications.

^{*1} Organic light-emitting diode (OLED).

^{*2} 24.5 inches, 623.4 mm viewing area, measured diagonally.

^{*3} 16.5 inches, 419.7 mm viewing area, measured diagonally.

^{*4} 42-inch (1067 mm), ^{*5} 24-inch (613.2 mm), ^{*6} 23-inch (584.2 mm), ^{*7} 20-inch (508 mm), ^{*8} 15.3-inch (388.6 mm), ^{*9} 21.5-inch (547 mm), ^{*10} 15.6-inch (395 mm) viewing areas, measured diagonally.

Sony Professional Monitor Lineup

Sony OLED Technology

TRIMASTER **EL**



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PVM OLED Series – Sony OLED Picture Monitor



PVM-2541
(24.5", measured diagonally)



PVM-1741
(16.5", measured diagonally)



PVM-740
(7.4", measured diagonally)

- Top-end picture quality in the picture monitor class
- All-in-one features
- Compact design
- 3G-SDI inputs

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LMD Series LCD Monitor Technology and Features

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LMD-51 Series – High-grade LCD Monitor



LMD-2451W
(24", measured diagonally)



LMD-1751W
(17", measured diagonally)



LMD-4251TD
(3D 42", measured diagonally)

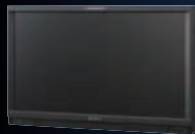


LMD-2451TD
(3D 24", measured diagonally)

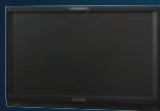
- Stylish control panel design
- Option slots for flexibility and expandability
- Multi-format inputs including 3G-SDI input
- 3D display

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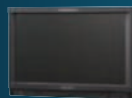
LMD-40/41 Series – Slim-bezel Compact-design LCD Monitor



LMD-2341W
(23", measured diagonally)



LMD-2041W
(20", measured diagonally)



LMD-1541W
(15", measured diagonally)



LMD-940W
(9.4", measured diagonally)

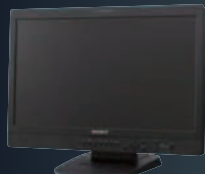
- All-in-one features
- Multi-format inputs including 3G-SDI inputs
- Suitable for monitor wall installations and field applications
- Waveform monitor, Audio level meter, and Time code display

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LMD-30/10 Series – Cost-effective Entry-level Monitor



LMD-1530W
(15.3", measured diagonally)



LMD-2110W
(21.5", measured diagonally)



LMD-1510W
(15.6", measured diagonally)

- High-picture performance
- Broadcast standard gamma
- Professional features
- Versatile signal inputs including HD-SDI and HDMI™

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Signal Formats, Feature Comparisons, Specifications, Optional Accessories, Dimensions

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Sony OLED – RGB 10-bit, Full HD



- Sony's unique Super Top Emission technology
- Deep black with high dynamic range

* 623.4 mm, and 419.7 mm (respectively), measured diagonally.

TRIMASTER EL



- Quick response with virtually no motion blur
- Wide color gamut and accurate color reproduction

▲ Sony OLED – Self-emitting Display Device

Sony OLED creates light by recombining an electron and a hole within certain organic materials. The process of emitting light is extremely efficient when compared to other technologies currently used for display.

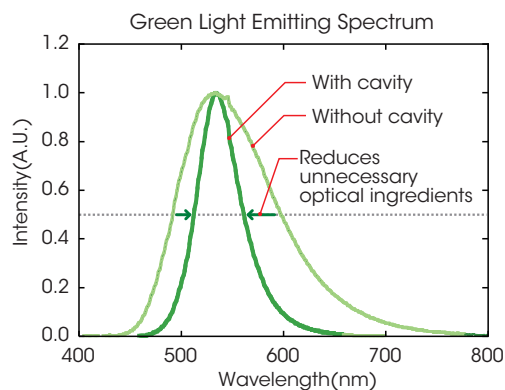
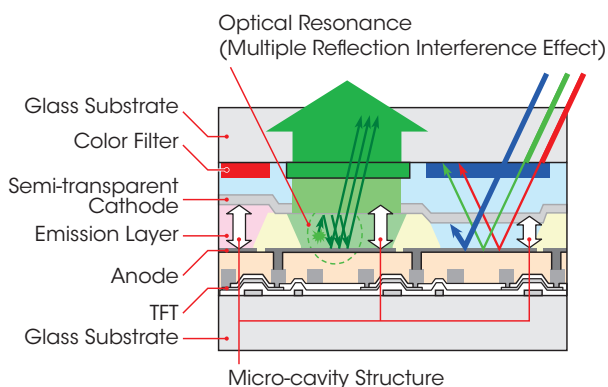
Its organic materials react to the control of the electrical current immediately, and do not emit light in the absence of an electrical current. In this way, the OLED display panel features superb black performance and quick response to fast-motion pictures. In addition, Sony OLED display panel delivers a wider color gamut.

▲ Super Top Emission Technology

Sony Super Top Emission OLED panel is designed to deliver light emission with the TFT layer on the rear side of the panel. Therefore, the top emission structure offers more efficient light emission than is typical with bottom emission structures where TFT layers are placed on the front side of the panel, limiting the light-emission aperture.

This Super Top Emission technology has a micro-cavity structure which incorporates color filters. This cavity structure uses an optical resonance effect to enhance color purity and improve light-emission efficiency. In addition, the color filter of each RGB also enhances the color purity of emitted light, and reduces ambient light reflection.

Sony Super Top Emission OLED panel is completely sealed by a glass substrate, and the electroluminescent layer is fully isolated from outside air and moisture. This contributes to stability and reliability.





The OLED processor

- Dedicated to eliciting full performance.

- Accurate signal processing across all signal levels
- Accurate gamma control
- Superb uniformity control

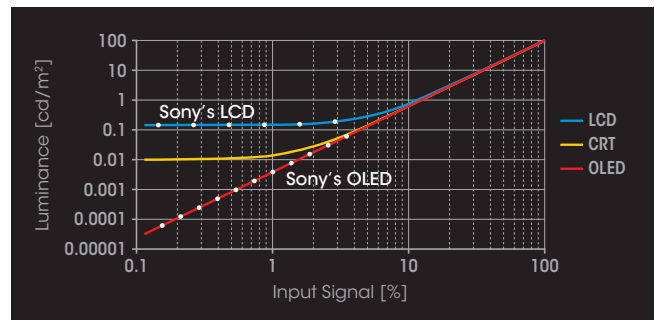
/// Dedicated Sony OLED Processor*

The PVM Series of OLED monitors incorporate newly developed OLED-dedicated signal processors to elicit and maximize OLED panel performance. This technology allows these TRIMASTER EL monitors to provide the level of performance required for critical imaging. These processors accurately control gamma and uniformity, and deliver precision stability control.

* The PVM-740 is equipped with a different processing technology (ChromaTRU™).

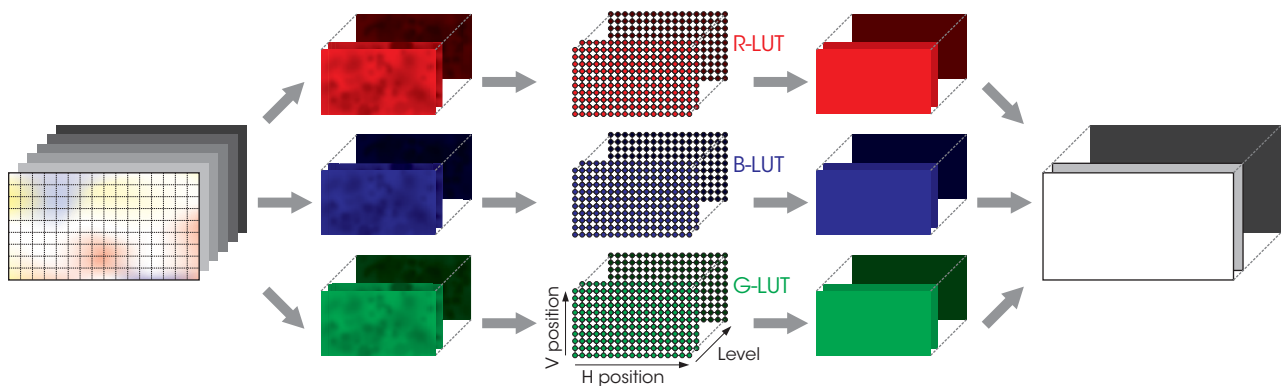
Accurate gamma control

Since the Sony OLED panel can display a deeper black than most any other display device, the OLED processor controls gamma accuracy (black reproduction) by increased signal processing bit depth.



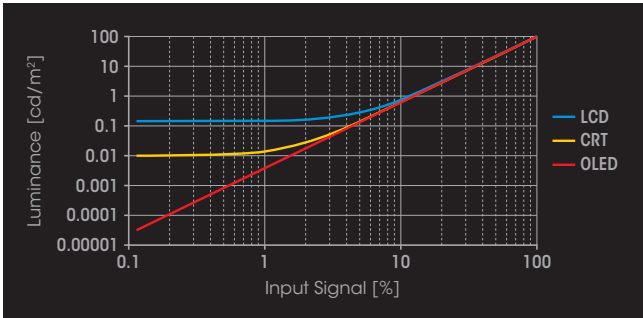
Superb uniformity control

The Sony OLED processor offers superb uniformity across all signal levels at every point of the screen. OLED-panel uniformity is precisely measured and corrected using a proprietary RGB LUT (look-up table) adjustment system.



▲ Accurate Black Reproduction

A key advantage of Sony OLED is the fact that each pixel can be turned completely off. No other display technology is able to offer this. LCD either raises black luminance due to intrinsic light leakage, or reduces black luminance with artificial local dimming technologies. CRT always applies a bias voltage to place the gun at the proper operating level. All of these display devices have some limitation in accuracy of black reproduction. In comparison, Sony OLED is capable of reproducing accurate black with each individual pixel, enabling users to evaluate each picture image faithfully to the signal.



Gray scale images corresponding to the input signal
Gray scales are simulated images.



LCD*

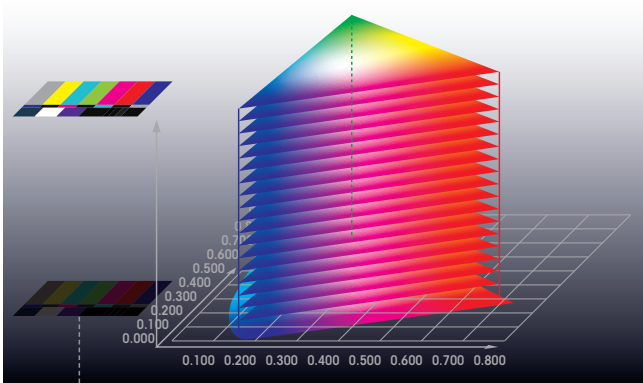


Sony OLED*

* Simulated images

▲ Accurate Color Reproduction

The Sony Super Top Emission technology not only offers a wide color gamut with its purity of the three primary colors, but also maintains this wide color gamut throughout the entire luminance range. While all other display devices have limitations in reproducing accurate colors, especially in the low signal levels, Sony OLED system is truly an ideal display device for picture viewing. With OLED, users see the details in the blacks, and see the colors as well.



Sony OLED*



* Color gamut images based on test results by Sony

Quick Response with Virtually No Motion Blur

The Sony OLED gray-to-gray switching speed (measured in microseconds, μs) is much faster than that of the LCD (measured in milliseconds, ms).^{*} This fast response benefits a variety of applications and uses. For example, in sports broadcasting, when camera pans would become blurred with an LCD, they remain sharp and clear with OLED. And with moving titles or graphics, when text can be difficult to read on an LCD, OLED displays clear text, regardless of speed or direction.

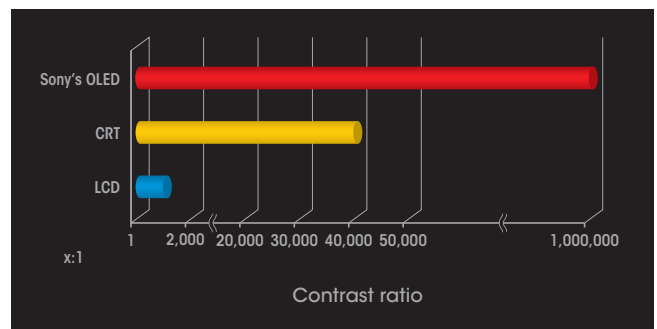
^{*} Based on Sony internal testing results



^{*} Simulated images

Wide Dynamic Range

The Sony OLED technology has the ability to control each individual pixel from an absolute black to peak white. Each pixel can display the entire dynamic range of the image with no interference to the adjacent pixels.



OLED Picture Monitor

TRIMASTER **EL**

For Critical Picture Viewing



PVM-2541



PVM-1741



PVM-740

The PVM-2541 and PVM-1741 as well as the PVM-740 are all-in-one OLED picture monitors, delivering unparalleled picture quality with the performance features and functions found in more expensive monitors, all contained in a compact, stylish design.

- The Sony Super Top Emission OLED display panel with 10-bit RGB:
 - 24.5-inch measured diagonally*¹ and 16.5-inch measured diagonally*¹ (Full HD 1920 x 1080 pixels)
 - 7.4-inch measured diagonally*¹ (Quarter HD 960 x 540 pixels)
- High dynamic range display
- New compact metal chassis
 - Lightweight and robust metal body
- Standard inputs
 - 3G/HD/SD-SDI input (x2)*², HDMI (HDCP) (x1), and Composite (x1)
- Built-in tools
 - Waveform monitor, audio level meter, timecode*³
- Easy-to-use control panel
 - Rotary-type switch for quick menu access
 - Seven function-assignable buttons for direct and quick access
- DC 12V operations (PVM-1741 and PVM-740)
- Auto white balance with PC application software
- External remote control function (parallel and serial remote)

*¹ 24.5 inch (623.4 mm), 16.5 inch (419.7 mm), and 7.4 inch (188.0 mm) (respectively), viewable area measured diagonally.

*² The PVM-740 is equipped with one SDI input connector.

*³ The PVM-740 does not support timecode display.

Groundbreaking Picture Performance with the Sony OLED Technologies

The Sony 24.5-inch*³, 16.5-inch*³, and 7.4-inch*³ Super Top Emission OLED display panels provide unparalleled black performance, a wide color gamut, and quick pixel response with virtually no motion blur.

By combining the Sony OLED display panel (Full HD*¹, 10-bit driver) and the Sony OLED processing technologies*², the PVM Series of OLED monitors deliver exceptional picture quality never before seen in conventional picture monitors.

*¹ The PVM-740 delivers Quarter HD (960 x 540) resolution.

*² The PVM-740 is equipped with the ChromaTRU processing technology.

*³ The viewable area is measured diagonally.

Main Features

▲ Sony OLED with Full HD* and 10-bit RGB

The PVM-2541 and PVM-1741 OLED panel with Full HD resolution (1920 x 1080) and a 10-bit RGB driver, together with the Sony Super Top Emission OLED display panel, creates lifelike and smoother-than-ever gradation from dark to bright portions of a scene such as in a sunrise or sunset.

* The PVM-740 delivers Quarter HD (960 x 540) resolution.



8-bit (256-levels) image*

10-bit (1024-levels) image*

* Simulated images

▲ Superb Black Performance

Thanks to the Sony OLED system, deep blacks can be accurately displayed and the black portion of an image is not degraded.

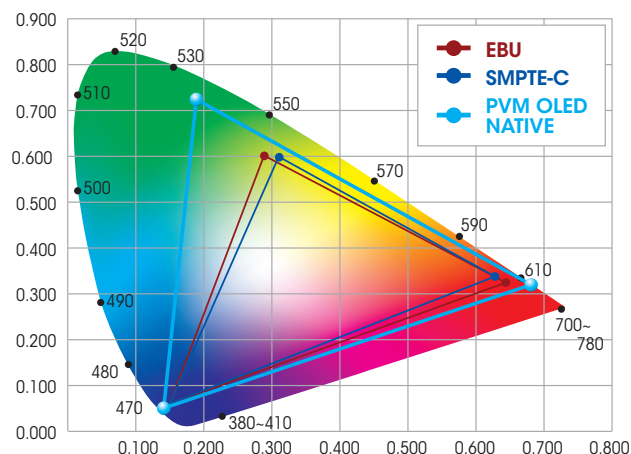


Black performance image

* Simulated image

▲ Wide Color Gamut and High-purity Deep Color Reproduction

The Sony OLED technology shows the largest color range of any Sony monitor ever offered. Color standards such as ITU-R BT.709, EBU, and SMPTE-C are displayed more accurately and, if desired, the OLED panel's native color gamut can be displayed. The Sony micro-cavity structure uses an optical resonance effect in combination with accurate color filters to calibrate and stabilize RGB color accuracy. This combination is also effective in reducing ambient light reflection, and consequently deep color reproduction can be achieved without degradation, particularly in bright environments.



PVM Series OLED monitors color gamut

▲ Quick Response with virtually Blur-free Motion

Because the OLED electroluminescent layer inherently responds to any electrical current input, it emits light immediately. By this mechanism, excellent quick response characteristics can be achieved on fast-motion images. This efficient virtually blur-free, fast response benefits a variety of applications and scenes, e.g., in sports broadcasting, monitoring of camera panning, and text scrolling.



▲ Superb Uniformity

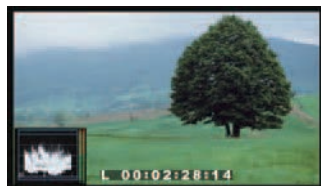
The PVM-2541 and PVM-1741 monitors incorporate a newly developed OLED process to bring out the full performances of the Sony OLED panels.

This OLED processor offers superb uniformity across all signal levels at every point of the screen. The OLED panel uniformity is precisely measured and corrected using a sophisticated RGB LUT (look-up table) adjustment system.

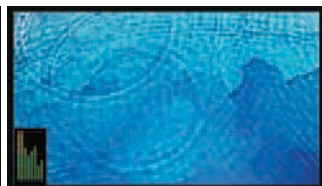
▲ Waveform Monitor, Audio Level Meter, and Time Code Display

Input signal waveform with a 2-channel audio level meter can be displayed on screen. When an SDI interface is connected, the embedded audio level can be displayed on screen with an 8-channel audio level meter. Time code embedded on SDI signals can be displayed on screen. Users can select either LTC or VITC.

* The Audio Level Meter function works only when receiving SDI-embedded audio signals.



The waveform monitor, 2-channel audio level meter, and time code display*



The 8-channel audio level meter*

* Simulated images

▲ I/P Mode Selection

The PVM-2541 and PVM-1741 monitors provide four I/P modes so that users can select the most suitable mode for each purpose:

■ INTER-FIELD:

This mode interpolates images between fields. This is used for picture quality precedence (e.g., to reduce the jagged effect on moving pictures).

■ INTRA-FIELD:

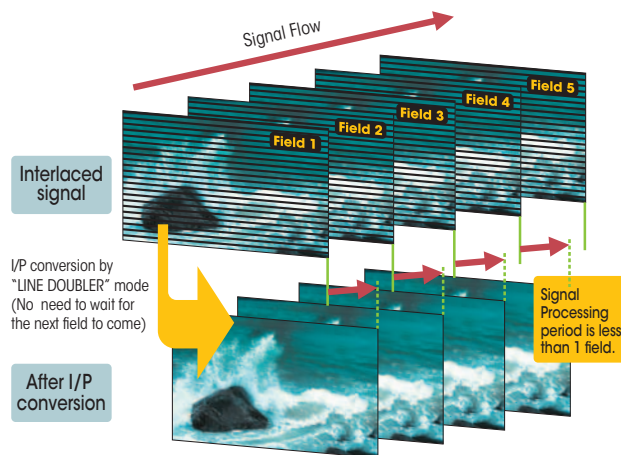
This mode interpolates images within the field, and delivers naturally reproduced images and quick picture processing. This mode is available for 1920 x 1080 SDI signal input.

■ FIELD MERGE:

This mode combines lines alternately in odd and even fields, regardless of picture movements. This is used for PsF (Progressive Segmented Frame) processing and still image monitoring.

■ LINE DOUBLER:

This mode interpolates by repeating each line. This is used for editing and monitoring fast-moving images, and checking line flicker. The minimum processing time is less than one field (0.5 frames).



LINE DOUBLER I/P mode image

▲ Lightweight Compact Design – Flexible Mounting For Picture Monitoring

The PVM-2541 and PVM-1741 incorporate a lightweight, compact metal body. Their design offers flexibility, and can be adapted according to the application: a desktop unit with standard monitor feet, or used with an optional SU-561 stand, or without the stand for wall applications.

These monitors support VESA™ mounting with a 100 mm pitch, and EIA 19-inch standard racks.* This allows the monitors to be used for all types of applications – desktop editing, office viewing, on a studio monitor wall, or installed in OB vans.

* The PVM-1741 only is available with supplied rack-mount brackets.



PVM-2541 front



PVM-2541 rear



PVM-2541 side



PVM-1741 front



PVM-1741 rear



PVM-1741 side



PVM-2541
standard



PVM-2541
with optional SU-561



PVM-2541
without stand

▲ Easy-to-use Control Panel

A rotary-type switch and seven function-assignable buttons allow users quick and intuitive operation. Operation buttons with LED indicators enable error-free operation, even in dark environments.*

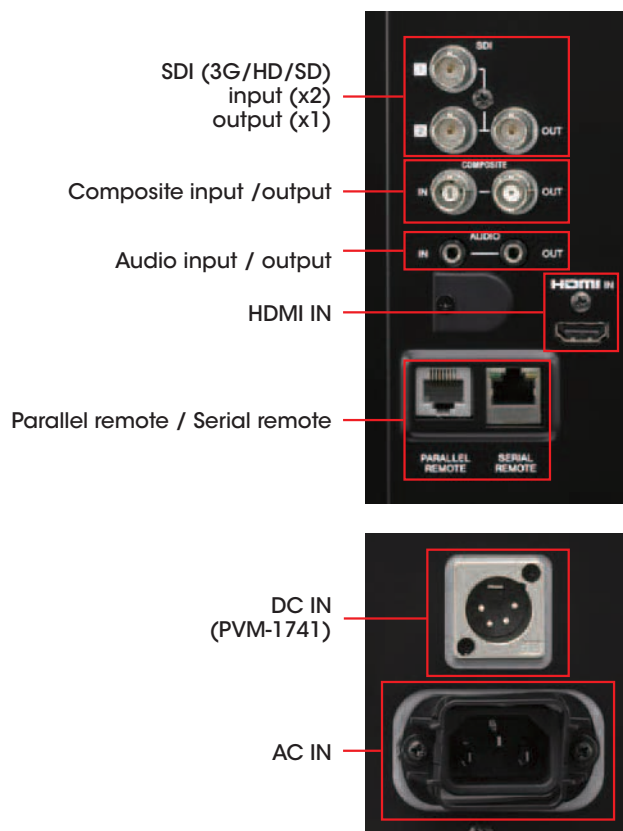
* LED lights can be switched on/off.



Control panel with LED lights-on

▲ Input Versatility

The PVM-2541 and PVM-1741 monitors are equipped with built-in standard input interfaces: 3G/HD/SD-SDI (x2), HDMI (HDCP) input (x1) and composite (x1).



▲ Auto White Balance

The PVM-2541 and PVM-1741 as well as PVM-740 monitors employ a software-based white balance calibration function, which is called "Monitor_AutoWhiteAdjustment". Combined with a PC and commercially available calibration tools*, this function enables simple adjustment of the monitor's white balance.

* The Konica Minolta CA-210/CA-310/CS-200, DK-Technologies PM5639/06, X-Rite i1 (Eye-one) Pro, Photo Research PR-670, Klein K-10, and JETI specbos 1211. Software can be downloaded from our web site at sony.com/monitorsoftware.



"Monitor_AutoWhiteAdjustment" GUI image

▲ External Remote Control Function

The PVM-2541 and PVM-1741 have an external remote control capability for input/output signal selection and adjustment of various items via an Ethernet (10BASE-T/100BASE-TX) connection. Up to 32 monitors and up to four control units can be connected via Ethernet connection and controlled remotely on the network. Also these monitors support some functions of the BKM-16R – an optional remote control unit for BVM-E/BVM-L/PVM-L Series monitors – such as the power on/off switch and the Input Select function.*

* The PVM-2541 and PVM-1741 do not support all BKM-16R functions.

▲ Input Signals

PVM-2541 / PVM-1741 / PVM-740 Signal Formats

System	Analog composite	Signal standard		
		SDI (3G/HD/SD)		HDMI
		PVM-2541 / PVM-1741	PVM-740	
575/50i (PAL)	○	○	○	○
480/60i (NTSC)*1	○	○	○	○
576/50p	–	–	–	○
480/60p*1	–	–	–	○
640 x 480/60p*1	–	–	–	○
1080/24PsF*1*2	–	○*3	○	–
1080/25PsF*2	–	○*3	○	–
1080/30PsF*1*2	–	○*3	–	–
1080/24p*1	–	○*3	○	○
1080/25p	–	○*3	○	○
1080/30p*1	–	○*3	○	○
1080/50i	–	○*3	○	○
1080/60i*1	–	○*3	○	○
1080/50p	–	○*4	○*4	○*6
1080/60p*1	–	○*4	○*4	○*6
720/24p*1	–	○*5	–	–
720/25p	–	○*5	–	–
720/30p*1	–	○*5	–	–
720/50p	–	○*3	○	○*6
720/60p*1	–	○*3	○	○*6

*1 Compatible with 1/1.001 frame rates.

*2 1080/24PsF, 25PsF and 30PsF are displayed as 1080/48i, 50i, and 60i on the screen, respectively.

*3 10-bit 4:4:4 Y/C_B/C_R and 4:4:4 RGB of 3G-SDI signals are supported.

*4 10-bit 4:2:2 Y/C_B/C_R of 3G-SDI signal is supported.

*5 10-bit 4:4:4 Y/C_B/C_R of 3G-SDI signal is supported.

*6 PVM-2541 and PVM-1741 can accept DVI signals via the HDMI interface using a conversion cable.

PVM-2541 / PVM-1741 DVI Input Signals

Resolution	Dot clock (MHz)	fH (kHz)	fV (Hz)
640 x 480	25.175	31.5	60
1280 x 768	68.250	47.4	
1280 x 1024	108.000	64.0	
1360 x 768	85.500	47.7	
1440 x 900	88.750	55.5	
1680 x 1050	119.000	64.7	

• When a DVI signal is input to the HDMI IN connector using a DVI conversion cable.

• Sides of the displayed picture may be hidden depending on the input signal.



PVM-740

*Simulated image



7.4-inch OLED panel

▲ OLED Portable Picture Monitor – PVM-740

The PVM-740 is a portable monitor in the PVM Series of OLED monitors. It packs high performance and a variety of features and functions in its robust and compact body.

- The Sony Super Top Emission OLED panel with a 10-bit driver
- Deep black and high contrast, high-purity deep color reproduction, and quick response with virtually no motion blur
- Wide color gamut and accurate gamma supporting broadcast standards (SMPTE-C, EBU, and ITU-R BT.709)
- Audio level meter and waveform monitor
- Screen saver function
- Silent mode
- External remote function

Robust, light-weight, and compact body

Incorporating a light-weight and compact aluminum-diecast body with a detachable AR-coated protection panel, this model is flexible enough to change style according to user requirements: with or without stand (which is easily detachable), tilted on a stand (15-degree slant), rack-mounted, or set on a camera pedestal.

PVM-740
with standard
stand tilt (15°)PVM-740
without standPVM-740 installed in the
optional MB-531 19"
mounting bracket with
MB-532 mounting panel

Camera focus function

The PVM-740 can control and increase the aperture level of a video signal, and display images on the screen with sharpened edges to help camera focus operation. This camera focus function can even be enhanced when combined with native scan mode.



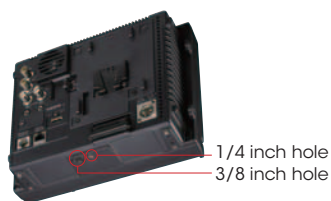
*Simulated image

Flip function

The PVM-740 monitor has a feature to flip a picture without frame delay, horizontally, vertically, or horizontally and vertically. This feature is useful and beneficial - for example, when using a 3D image acquisition system with a 3D rig camera. This allows for much simpler system integration and greater cost efficiency.

Screw holes for camera pedestal

With 3/8-inch and 1/4-inch screw holes on its base, the PVM-740 can be installed in a camera pedestal.



PVM-740 rear and bottom

Detachable AR (anti-reflection) -coated protection panel

AR-coated protection panel keeps the OLED panel surface from scratching and keeps reflection from ambient light to a minimum.

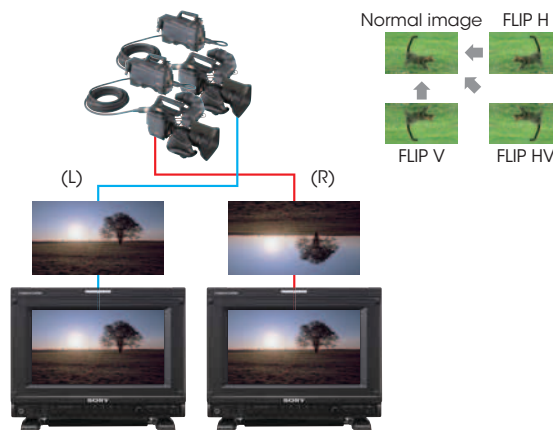


Hood Kit VF-510

For use in the field, the optional VF-510 Hood Kit provides a viewing hood, carrying handle and connector protector.



PVM-740 with VF-510 Hood Kit



*Simulated image

Input versatility

The PVM-740 is equipped with built-in standard input interfaces: 3G/HD/SD-SDI (x1), composite (x1), and HDMI input (x1).



LMD Series Technology & features



10-bit Signal Processing

LMD-51 LMD-40/41 LMD-30/10

All LMD Series monitors incorporate high-purity RGB color filters and a 10-bit signal processing engine to offer stunning 109% peak white reproduction without clipping and a smooth gray scale along CRT-like gamma.



8-bit (256-levels) image*

10-bit (1024-levels) image*

* Simulated images

ChromaTRU Color Processing

ChromaTRU
LMD-51 LMD-40/41

For an extra level of color-reproduction accuracy, every LCD panel used in LMD-51 Series and LMD-40/41 Series monitors is precisely color calibrated at the factory, providing characteristics consistent with those of broadcast standards. Also, white balance is maintained at a consistent color temperature throughout all gray scale levels. The ChromaTRU process reproduces consistent light output extremely close to that of a CRT.

White Balance Calibration Function

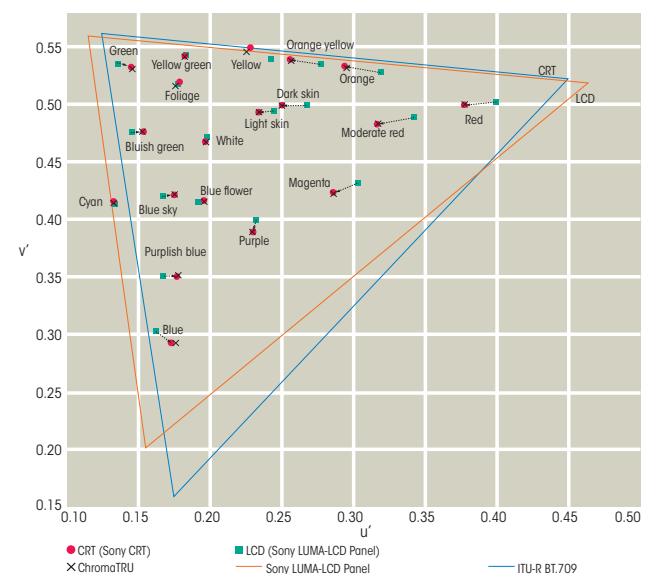
LMD-51 LMD-40/41

LMD-51 Series and LMD-40/41 Series monitors are adjusted at the factory to achieve optimized color, brightness, and gamma prior to shipment. LCD monitor performance, however, typically changes over time and requires regular recalibration to maintain its original performance. These monitors employ a software-based white balance calibration function, which is called "Monitor_AutoWhiteAdjustment". Combined with a PC and commercially available calibration tools*, this function enables simple adjustment of the monitor's white balance.

* The Konica Minolta CA-210/CA-310/CS-200, DK-Technologies PM5639/06, X-Rite i1 (Eye-one) Pro, Photo Research PR-670, Klein K-10, and JETI specbos 1211. Software can be downloaded from our web site at sony.com/monitorssoftware.



"Monitor_AutoWhiteAdjustment" GUI image



In this diagram, the raw light output of a LMD-51 Series and LMD-40/41 Series LCD panel is compared with that of a CRT from Sony using a CIE $u'v'$ chart, which enables evaluation of light output from display devices. The triangular areas show their different color reproduction capabilities (Color Space). The green and red dots indicate the color of light output from the LMD-51 Series and LMD-40/41 Series LCD panel and from the CRT for certain RGB input signals.

Note that the same light color is not obtained from the same video input. The ChromaTRU process, on the other hand, reproduces consistent light output extremely close to that of a CRT.



Extremely Wide Viewing Angle with IPS Panels

LMD-51

LMD-40/41

LMD-30

LMD-51 Series, LMD-40/41 Series, and LMD-1530 monitors offer stable images when viewed from various angles: both horizontally and vertically, with virtually no reduction in picture contrast, color saturation, or hue shift. This allows precise images to be clearly viewed from various positions and angles – a critical requirement in professional video monitoring – and makes these monitors suitable for group viewing.



* Simulated image

Sophisticated I/P Conversion and I/P Mode Selection

LMD-51

LMD-40/41

LMD-30/10

LMD Series monitors incorporate a sophisticated I/P conversion and provide selectable I/P modes so that users can select the most suitable mode for each purpose:

INTER-FIELD:

This mode interpolates images between fields. This is used for picture quality precedence (e.g., to reduce the jagged effect on moving pictures).

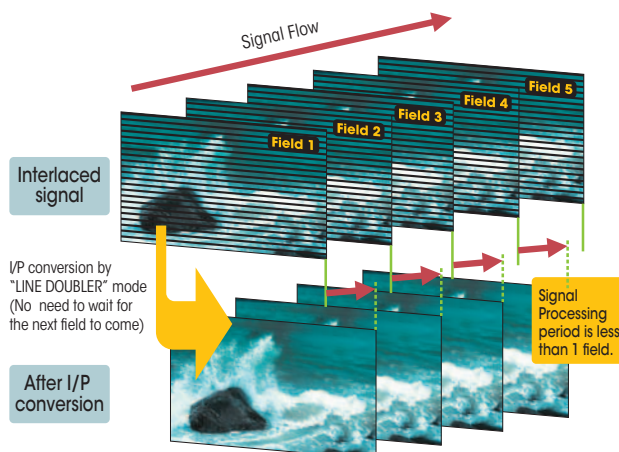
FIELD MERGE*:

This mode combines lines alternately in odd and even fields, regardless of picture movements. This is used for PsF (Progressive Segmented Frame) processing and still image monitoring.

LINE DOUBLER:

This mode interpolates by repeating each line. This is used for editing and monitoring fast-moving images, and checking line flicker. The minimum processing time is less than one field (0.5 frames).

* Is not supported with LMD-30/10 Series.



3G-SDI Input

LMD-51

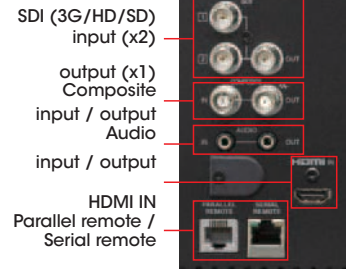
LMD-40/41

LMD-51 Series and LMD-40/41 Series monitors can accept 3G-SDI input.* The Sony 3G-SDI interface is compliant with the SMPTE 425 standard, transmitting up to 4:2:2/10-bit 1080/50p and 1080/60p video data using one SDI cable. When an upgrade to these 1080/p systems is required, this single-link 3G-SDI system is an ideal, future-proof solution.

* The LMD-51 Series monitors require an optional BKM-250TG 3G-SDI input adaptor. No models support a dual-link HD-SDI interface.



LMD-2451W with the BKM-250TG 3G-SDI board



LMD-2341W / LMD-2041W / LMD-1541W Interfaces

External Remote Control Function

Serial Remote

LMD-51

LMD-40/41

LMD-51 Series and LMD-41 Series have an external remote control capability for input/output signal selection and adjustment of various items via Ethernet (10BASE-T/100BASE-TX) connection.

Up to 32 monitors and up to four control units can be connected via Ethernet connection and controlled remotely on the network. Also these monitors support some functions of the BKM-16R – an optional remote control unit for BVM-L/ PVM-L/BVM-E Series monitors – such as the power on/off switch and the Input Select function.*

* The LMD-51 Series and LMD-41 Series monitors do not support all BKM-16R functions.

Parallel Remote

LMD-51

LMD-40/41

LMD-30/10

All LMD monitors can be remotely controlled via their parallel remote 8-pin modular connector. Seven of each monitor's available functions can be assigned to the available connector pins, such as tally switching, marker switching, and input switching.

Power-saving Mode

LMD-51

LMD-40/41

When no input signal is received for over a minute, the monitor goes into power-saving mode and consumes minimal power. This function prevents unnecessary electrical consumption.

LMD-51 Series – Modular LCD Monitors



LMD-2451W



LMD-1751W



LMD-4251TD



LMD-2451TD



Model Types

	LMD-2451W	LMD-1751W	LMD-4251TD 	LMD-2451TD 
Panel size (diagonal)	24-inch	17-inch	42-inch	24-inch
Resolution (pixels)	1920 x 1200 (WUXGA)	1280 x 768 (WXGA)	1920 x 1080 (Full HD)	1920 x 1200 (WUXGA)
Aspect ratio	16:10	15:9	16:9	16:10
Desktop stand	Standard	Optional SU-561	N/A	Standard
EIA 19-inch rack-mount	N/A	Optional MB-530	N/A	N/A
VESA mounting (mm)	100 x 100	100 x 100, 75 x 75	400 x 400	100 x 100

- Stylish control panel design – sheet-type switches with on/off switchable LED lights
- Option slots for flexibility and expandability
- Multi-format inputs including 3G-SDI input*¹
- 3D display (LMD-4251TD and LMD-2451TD)

- 10-bit signal processing and ChromaTRU color processing technology
- Auto white balance calibration function for color consistency*²
- Wide viewing angle with an IPS panel
- Sophisticated I/P conversion and I/P mode selection
- Waveform monitor, audio level meter, and time code display*³
- External remote control function (serial remote and parallel remote)
- Power-saving mode

*1 The optional BKM-250TG 3G-SDI input adaptor is required.

*2 This function uses a PC and the commercially available calibration probe X-Rite i1 (Eye-one) Pro.

*3 The LMD-4251TD does not support this.



▲ Superb Picture Performance and Convenient Features

High-performance LCD panels

The LMD-51 Series monitors incorporate high-resolution professional LCD panels* with an excellent wide viewing angle, and use precisely manufactured RGB color filters, allowing the reproduction of colors with stunning depth and saturation to create highly natural images.

* LMD-4251TD (42-inches measured diagonally, 1920 x 1080 pixels), LMD-2451W/TD (24-inches measured diagonally, 1920 x 1200 pixels), and LMD-1751W (17-inches measured diagonally, 1280 x 768 pixels).

10-bit signal processing and ChromaTRU color matching technology

Added to the high-grade LCD panels, a 10-bit signal processing and ChromaTRU technology offer a smooth gray scale along CRT-like gamma and stable white balance.



Waveform monitor, audio level meter, and time code display*

The input signal's waveform can be displayed on screen. When an SDI interface is connected, the embedded audio level can be displayed on screen with a 2-channel audio level meter. Installing an optional BKM-250TG 3G-SDI input adaptor, the LMD-51 Series monitors can display on screen an 8-channel audio level meter and a time code – either LTC or VITC is selectable.



* Simulated images

* The LMD-4251TD does not support this function.

Stereo audio monitoring

LMD-51 Series monitors are equipped with stereo speakers (1.0 W + 1.0 W) and a stereo headphone jack, which enable users to monitor audio. The SDI-embedded audio can be monitored by the built-in speakers and the monitor output.

Closed-caption decoder

The closed caption information embedded in EIA 608 and EIA 708* can be decoded for display.

* For EIA 708, the optional BKM-244CC Closed Caption Adaptor is required.

Color temperature

Color temperatures of D93, D65, or a user preset value can be Selected.

Selectable scan size for video input and aspect ratio

Scan size can be selected between Normal scan (0%), over Scan (5%), Full scan, and Native scan modes.* The aspect ratio can be switched between 16:9 and 4:3 according to the input signal.

* Full scan and native scan modes work on specific signal formats.

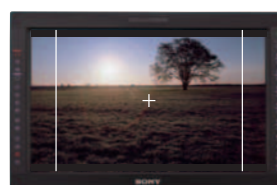
Marker settings

LMD-51 Series monitors can display various area markers, including a center marker, aspect markers, and safety area marker. The brightness of these markers can be selected from three different levels: white, gray, and dark gray.

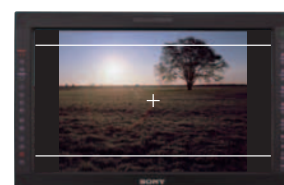
Users can also select either a black or gray mat to fill the outer area of the aspect markers. These flexible marker controls, together with the choice of many different aspect markers, make the LMD-51 Series monitors extremely convenient display devices for a variety of shooting scenarios, from standard video acquisition to digital cinematography.

Marker settings

	16:9 Mode	4:3 Mode
Aspect Marker	4:3, 15:9, 14:9, 13:9, 1.85:1, 2.35:1, 1.85:1 & 4:3	16:9
Center Marker	Yes	
Safety Area	80%, 85%, 88%, 90%, 93%	



4:3 aspect marker image



16:9 aspect marker image



Safety area marker image

* Simulated images

Mounting flexibility

The LMD-1751W is rack-mountable in the EIA 19-inch standard rack, using an optional MB-530 mounting bracket.

VESA mounting

LMD-51 Series monitors provide VESA standard mounting holes which support installation on a wall or ceiling:

LMD-4251TD – 400 x 400 mm pitch

LMD-2451W / LMD-2451TD – 100 x 100 mm pitch

LMD-1751W – 100 x 100 mm and 75 x 75 mm pitch

Other features

- Multi-display mode
- H/V Delay Function
- ACC Off
- DC Operation
 - 24 V: LMD-2451W, LMD-2451TD, 12 V: LMD-1751W
- Setup Level for Analog Component and NTSC signal
- Sub Control on Contrast, Chroma, Phase, and Brightness
- Blue-Only Mode
- Monochrome Mode
- Auto Chroma / Phase Setup
- Three-color Tally (LMD-4251TD is not equipped with Tally)
- Key-inhibit function
- Smart APA (Auto Pixel Alignment) for Computer Input

Input Versatility

Standard and optional signal interfaces

In addition to the standard input interfaces of analog composite, component and RGB, and Y/C (S-Video), LMD-51 Series monitors are equipped with two slots for optional input adaptors of any combination for SD or HD video inputs. Users can expand the input capability according to their budget and needs.

Computer signal interfaces

LMD-51 Series monitors are equipped with standard interfaces for HD-15 and DVI-D* interfaces, respectively.

* 1920 x 1080 images are down-converted for display on the LMD-1751W.

3G-SDI interface*

LMD-51 Series monitors can accept 3G-SDI input by installing on an optional BKM-250TG 3G-SDI input adaptor.

Sony 3G-SDI interface is compliant with the SMPTE 425 standard, transmitting up to 4:2:2/10-bit 1080/50p and 1080/60p video data using one SDI cable.

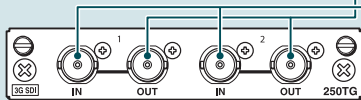
When an upgrade to these 1080/p systems is required, this single-link 3G-SDI system is an ideal, future-proof solution.

* No models support a dualLink HD-SDI interface.

Signal-interface Options

BKM-250TG, 3G/HD/SD-SDI Input Adaptor*

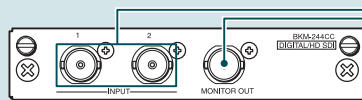
- 3G/HD/SD-SDI signal input (x2)
- 3G/HD/SD-SDI monitor output (x2)



* 3G-SDI, HD-SDI and SD-SDI signals are detected automatically

BKM-244CC, HD/SD-SDI Closed Caption Adaptor*

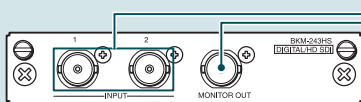
- HD-SDI/SD-SDI signal input (x2)
- HD-SDI/SD-SDI monitor output (x1)



* HD-SDI and SD-SDI signals are detected automatically
* Closed-caption decoders (EIA 608 and EIA 708) are equipped

BKM-243HS, HD-SDI/SD-SDI Input Adaptor*

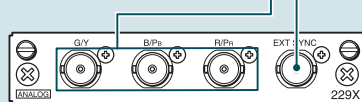
- HD-SDI/SD-SDI signal input (x2)
- HD-SDI/SD-SDI monitor output (x1)



* HD-SDI and SD-SDI signals are detected automatically

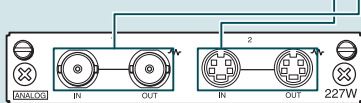
BKM-229X, Analog Component Adaptor

- RGB, Y/Pb/Pr input (x1)
- EXT SYNC (x1)



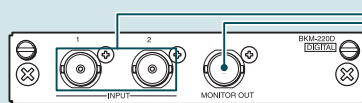
BKM-227W, NTSC/PAL Input Adaptor

- Composite input/output (x1)
- Y/C input/output (x1)



BKM-220D, SD-SDI 4:2:2 Input Adaptor

- SD-SDI signal input (x2)
- SD-SDI monitor output (x1)



LMD-2451TD / LMD-2451W connector panel



LMD-2451W with the BKM-250TG 3G-SDI board



LMD-2451TD / LMD-2451W option slots



LMD-1751W connector panel and option slots



LMD-4251TD connector panel and option slots



LMD-4251TD



LMD-2451TD

LMD-51TD Series – 3D Monitors

Sony offers two models of high-performance professional 3D LCD monitor: the LMD-4251TD and the LMD-2451TD. These monitors are supplied with the BKM-30G circular-polarizer 3D glasses as a supplied accessory.*³

*1 42 inch, 1067-mm viewing area, measured diagonally.

*2 24 inch, 613-mm viewing area, measured diagonally.

*3 Also available BKM-31G clip-on type 3D glasses as an option.

Circular-polarizer 3D system

The LMD-4251TD and LMD-2451TD incorporate a micropolarizer filter attached to the LCD panel. Wearing the Sony BKM-30G or BKM-31G 3D glasses, users experience smooth, uninterrupted viewing of multiple monitors and flicker-free 3D images. This image quality helps users to engage in 3D production operations with minimal stress.

Unique lightweight circular-polarizer 3D glasses

Sony provides two types of 3D glasses: the standard BKM-30G, and the clip-on BKM-31G.

BKM-30G and BKM-31G circular-polarizer 3D glasses are optimized for LMD-4251TD and LMD-2451TD 3D monitors. These 3D glasses are extremely lightweight*¹ and comfortable to wear. Designed with a soft frame and center-support structure, BKM-30G glasses fit any size and shape of head and face, so the wearer experiences minimal stress even during continuous production tasks. The center-support structure of the BKM-30G does not put the lenses under stress, and so there is no lens distortion. With clip-on BKM-31G 3D glasses, the wearer can simply flip up the lenses when not required.

Both the BKM-30G and BKM-31G block approximately 99% of the sun's ultraviolet rays.*²

*1 BKM-30G glasses weigh approx. 18 g; BKM-31G glasses weigh approx. 16 g.

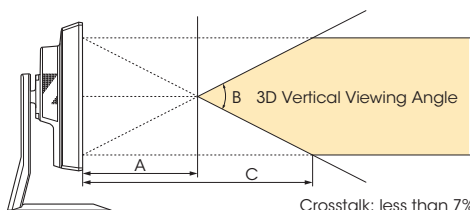
*2 These circular-polarizer glasses cannot be used as sunglasses.

The blocked spectral range is 280 nm to 380 nm.

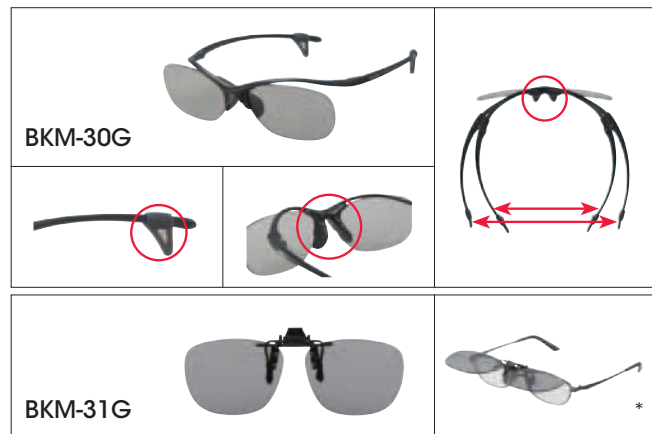
Fully compatible with 2D monitors

The LMD-4151TD and LMD-2451TD monitors are equipped with consistent quality, functionality, and operability – essential for professional monitors. Both 3D monitors can be used as 2D monitors, and their features are fully compatible with those of current LMD-51W Series monitors.*

* The LMD-4251TD does not support 2-channel audio level meter and waveform monitor display.



	A (typical)	B (typical)	C (typical)
LMD-2451TD	320 mm	54°	640 mm
LMD-4251TD	620 mm	46°	1240 mm



* Clip-on BKM-31G glasses are worn with the user's own corrective glasses

Multiple 3D input signal formats and interfaces

The LMD-4251TD and LMD-2451TD accept a variety of 3D signal formats including 3G-SDI, Dual-stream HD-SDI, HD-SDI side-by-side, HD-SDI Line interleave (line-by-line), HD-SDI Field sequential using an optional BKM-250TG 3G-SDI input adaptor, and DVI Line interleave (line-by-line). This input flexibility enables versatile 3D production both in the studio and the field.

Various 3D signals and video formats support

Type of 3D signals	3G (level-B) Dual-stream	Side-by-side* ³		Line-by-line		Sequential
	3G* ¹ /HD-SDI x 2* ¹	HD-SDI* ¹	HD-SDI* ¹	DVI	HD-SDI* ¹	
1080/50i	○	○	–	–	–	–
1080/60i* ²	○	○	–	–	–	–
1080/24P	○	○	○	–	–	–
1080/25P	○	○	○	–	–	–
1080/30P* ²	○	○	○	–	–	–
1080/50P	–	–	○	–	–	–
1080/60P	–	–	○	–	–	–
1080/24PsF* ²	○	○	–	–	○	○
1080/25PsF	○	○	–	–	○	○
720/50P	○	○	○	–	–	–
720/60P* ²	○	○	○	–	–	–
1920 x 1080/50Hz	–	–	–	○	–	–
1920 x 1080/60Hz	–	–	–	○	–	–

*1 BKM-250TG (Ser.7100001 or later) is required for the 3D 3G/HD-SDI signals.

*2 The frame rates are also compatible with 1/1.001.

*3 L/R pictures are displayed as "side-by-side" in 2D display mode, and are displayed as "line-by-line" in 3D display mode. The pictures are aligned as side by side in 2D display mode are not compressed vertically.

Variety of 3D/2D display functions

There are a variety of convenient 3D production features*1*2 – ideal for high-quality creative 3D production. These capabilities are assignable to function keys on the front panel of the LMD-4251TD and LMD-2451TD, and can also be assigned to an external remote control unit. Plus and minus menu switches (“+” and “-”) are also assignable to the parallel remote.*3 The 2D/3D select function is assigned to the front panel buttons or parallel remote, locations that are very convenient for users who frequently switch between 2D and 3D mode during 3D production work.

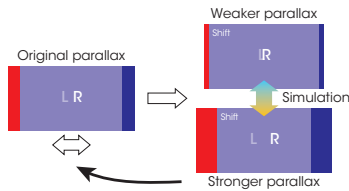
*1 These functions work when the optional BKM-250TG 3G-SDI input adaptor is installed. Some features are unavailable depending on input signals or display modes. Multiple functions may not be used simultaneously.

*2 The 1920 x 1080 image displays with black bands at the top and bottom of the LMD-2451TD WUXGA screen.

*3 This function will be available from software V1.10, and requires a BKM-250TG serial number of 740001 or higher.

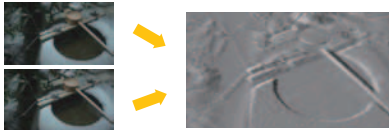
Disparity simulation [3D mode]

Either the left or right signal phase (or both phases) of a 3D image can be shifted horizontally.



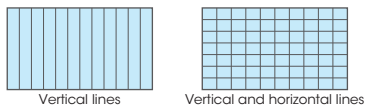
Difference display*3

This function displays the difference between the luminance signal of the left (L) and right (R) images of the 3D signal. This function is useful for checking the amount of parallax.



Grid display*

The primary function is to display arbitrary multiple numbers of vertical lines for users to review the overall parallax of captured images.

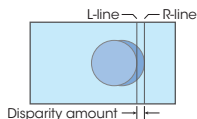


Examples of grid display

* Number of vertical lines can be set variable with 0.1% (2-pixel) pitch.

Disparity ruler*3

This function works to precisely measure disparity by setting L-line and R-line to L/R objects respectively on the screen.



Virtual Subject Marker*3

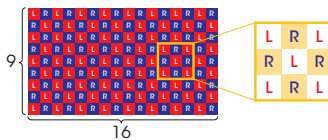
This function simulates disparity in a subject on any part of the screen, before the shot is taken.



* Simulated images

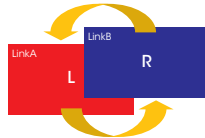
Checker board [2D mode]

Left and right input signals are displayed in a grid pattern on screen. By comparing adjacent images, users can recognize a difference in brightness and color setting of the left and right images.



L/R switch [2D mode]

Left and right signals can be swapped in a moment without inserting black frames, simply by manually pushing a function key. Automatic sequential mode is also available.*3



3D/2D color matching function (3D offset adjustment)*3

In 3D mode, this function offsets the white balance of a 3D image. This enables closer image color matching between a 3D image viewed through 3D glasses and a 2D image when the viewer takes off their 3D glasses.



720p Native display*



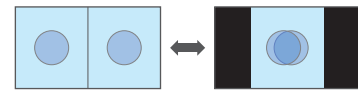
720p Normal display*
* Screen images are simulated.

Side-by-side signals display

In addition to the popular squeezed side-by-side display (SBS1) mode, non-squeezed side-by-side display (SBS2) mode is also provided.*

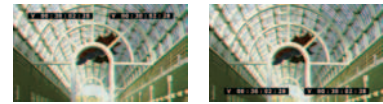
As illustrated below, when a delay in signal processing occurs, both the left and right signals synchronize to the delayed signal.

* The SBS2 mode is available from software V1.10.



Dual time code display [3D modes]*3

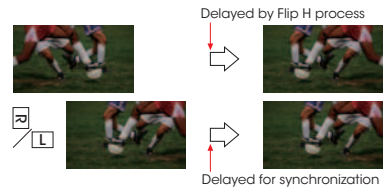
Left and right channels' individual time codes can be displayed on the screen.



* Time code displays and images are simulated.

Flip H [3D mode]

The Flip H function turns the reversed image to the normal view. This is helpful because the user can refer directly to the rig camera, achieving a simple and cost-saving system.



Horopter check [3D mode]

This function helps users to perceive the subtle difference of depth between different objects placed on the 3D screen surface.

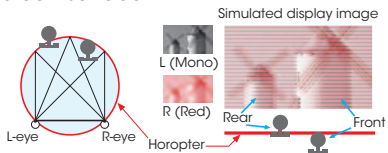


Image overview when viewed from above

Payload ID display

This function allows users simply to check whether the left and right channels of 3D signals are connected correctly in the menu.

LMD-40/41 Series – Production LCD Monitor



LMD-2341W



LMD-2041W



LMD-1541W



LMD-940W

Model Types

	LMD-2341W	LMD-2041W	LMD-1541W	LMD-940W
Panel size (diagonal)	23-inch	20-inch	15.3-inch	9.4-inch
Resolution (pixels)	1920 x 1080 (Full HD)	1600 x 900	1280 x 768 (WXGA)	800 x 480 (WVGA)
Aspect ratio	16:9	16:9	15:9	15:9
Desktop stand	Supplied monitor feet	Supplied monitor feet	Supplied monitor feet	Standard
	Optional SU-561	Optional SU-561	Optional SU-561, SU-562	
EIA 19-inch rack-mount	N/A	Supplied brackets	Optional MB-534	Optional MB-531
VESA mounting (mm)	100 x 100	100 x 100	100 x 100	N/A

- Slim-bezel and compact-design
- All-in-one features
- Multi-format inputs including 3G-SDI inputs
- Suitable for monitor wall installations
- Waveform monitor, Audio level meter, and Time code display*¹
- Standard-supplied monitor feet*²
- IMD (in-monitor display)*²
- Superb picture performance and color consistency with 10-bit signal processing and ChromaTRU technology
- Auto white balance calibration function for color consistency*³
- Wide viewing angle with an IPS panel
- Variety of marker settings
- Native scan framing function*⁴



LMD-2341W with monitor feet

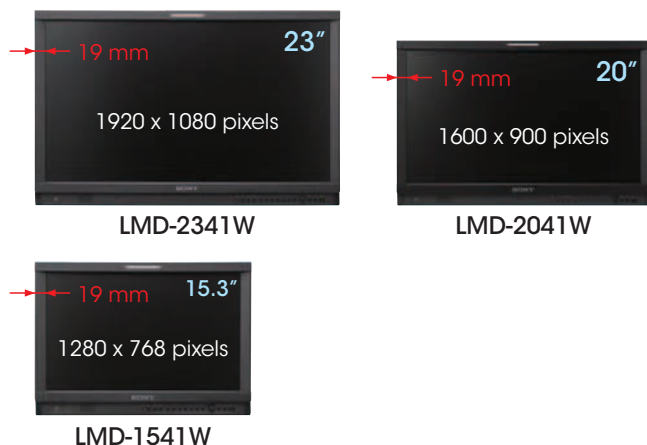
* Simulated image

*¹ Time code display is not supported with the LMD-940W.*² The LMD-2341W, LMD-2041W, and LMD-1541W only.*³ This function uses a PC and the commercially available calibration probe X-Rite i1 (Eye-one) Pro.*⁴ The LMD-2041W and LMD-1541W only.

All-in-one Features in Compact Design

Slim bezel, compact design for monitor-wall Installation

Incorporating a lightweight and robust aluminum slim bezel and compact body, the LMD-2341W, LMD-2041W, and LMD-1541W are a highly appropriate solution for monitor-wall installation, both in studio sub-control rooms and OB vans.



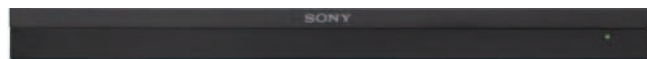
Easy-to-use control panel

A rotary-type switch and seven function-assignable buttons allow users speedy and intuitive operation. Operation buttons with LED indicators enable error-free operation, even in dark environments.* The control panel of the LMD-2341W can be covered with a supplied control panel cover to simplify its appearance on a monitor wall.

* LED lights can be switched on/off.



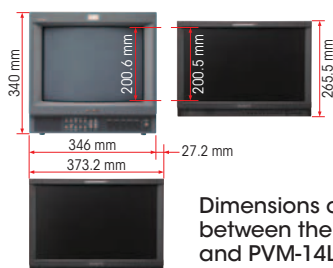
Control panel with LED lights-on



The LMD-2341W with a control panel cover

Ideal for CRT monitor replacement

The LMD-1541W and the PVM-14L2, Sony's most popular 14-inch (measured diagonally) 4:3 aspect CRT monitor, share almost the same viewable area height. The body of the LMD-1541W – which houses a 15.3-inch (measured diagonally), 15:9 aspect screen – is 74.5 mm shorter in height and only 27.2 mm wider than the PVM-14L2 body. And with its space-saving design, the LMD-1541W can be installed effectively in small spaces.



Dimensions comparison between the LMD-1541W and PVM-14L2

Desk-top editing and office viewing

With a standard-supplied monitor feet or by installing an optional monitor stand*, the LMD-2341W, LMD-2041W, and LMD-1541W can be used as desk-top monitors both for editing and office viewing.

* The optional SU-561 stand can be used for any 41 series monitors, and the optional SU-562 stand is for the LMD-1541W only.



In-monitor display (IMD) function

The LMD-2341W, LMD-2041W, and LMD-1541W support the TSL UMD protocol and can display on screen two tally lamps and dynamic text information received via Ethernet. Up to 16 unicode characters*¹ can be displayed. IMD text can be positioned at the top or bottom of the screen. Both the text color and the tally lamp color are separately selectable either in a commanded color or in one of eight preinstalled colors.*²

*¹ English alphabets, numbers, symbolic codes, and Japanese letters.
*² White, red, green, blue, yellow, cyan, magenta, and amber.

Waveform monitor, audio level meter*, and time code display

The input signal's waveform with a 2-channel audio level meter can be displayed on screen. When an SDI interface is connected, the embedded audio level can be displayed on screen with an 8-channel audio level meter. A time code superimposed on SDI signals can be displayed on screen. Users can select either LTC or VITC.

* The Audio Level Meter function works only when receiving SDI-embedded audio signals.



The IMD, waveform monitor, 2-channel audio level meter, and time code display*



The IMD, 8-channel audio level meter, and time code display.*

* Simulated images

External remote control function

The LMD-2341W, LMD-2041W, and LMD-1541W have an external remote control capability for input/output signal selection and adjustment of various items via Ethernet (10BASE-T/100BASE-TX) connection. Up to 32 monitors and up to four control units can be connected via Ethernet connection and controlled remotely on the network.

Superb Picture Performance and Convenient Features

High-quality LCD panels and processing technology

The LMD-2341W (23-inch measured diagonally) full-HD resolution (1920 x 1080 pixels), LMD-2041W (20-inch measured diagonally) (1600 x 900 pixels), and LMD-1541W (15.3-inch measured diagonally) WXGA resolution (1280 x 768 pixels) high-performance LCD panels reproduce lifelike precise images and accurate color. Incorporating an IPS panel, the LMD-2341W, LMD-2041W, and LMD-1541W offer a wide viewing angle.

A combination of Sony's unique ChromaTRU color matching technology and 10-bit signal processing delivers a stunning smooth gray scale, emulating the colors and gammas of broadcast-standard CRT monitors. Users can select the required color space within this gamut. In addition, ChromaTRU technology provides these monitors with color consistency in a multi-monitor system, and offers the best solution for a monitor-wall installation.



8-bit (256-levels) image*



10-bit (1024-levels) image*

* Simulated images

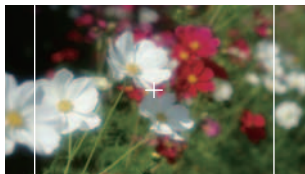
Auto white balance calibration

This function ensures simple adjustment of each monitor's white balance. This function works with the combination of a PC and a commercially available calibration tools.*

* The Konica Minolta CA-210/CA-310/CS-200, DK-Technologies PM5639/06, X-Rite i1 (Eye-one) Pro, Photo Research PR-670, Klein K-10, and JETI specbos 1211. Software can be downloaded from our web site at sony.com/monitorssoftware.

A variety of marker settings

LMD-2341W, LMD-2041W, and LMD-1541W monitors can display a center marker, aspect markers, and safety area markers.



4:3 aspect marker image



16:9 aspect marker image



Safety area marker image

* Simulated images

Scan mode selection

Scan size can be selected from normal scan (0%), over scan (5%), full scan, and native scan modes.*

* The aspect ratio can be switched between 16:9 and 4:3 according to the input signal.

As a new function of the LMD-2041W and LMD-1541W, when a 1920 x 1080i or 1080p signal is input, the image frame of native scan can be shifted in five patterns: center, top-left, top-right, bottom-right, and bottom-left.

* Full Scan and Native Scan modes work on specific signal formats.

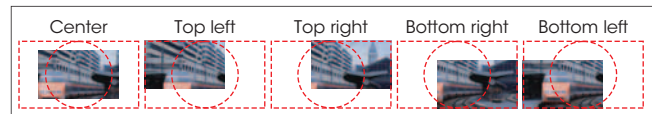


1920 x 1080 signal

Display in
NATIVE scan mode



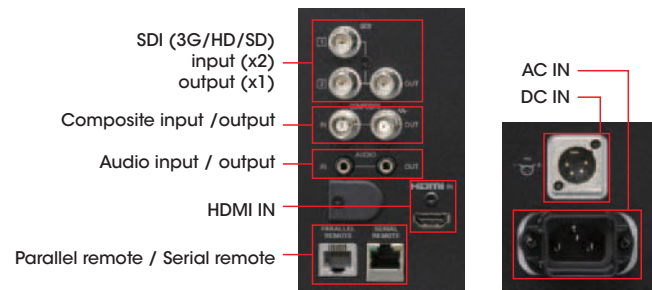
1600 x 900 (LMD-2041W)
1280 x 768 (LMD-1541W)
resolution



Native scan framing image (LMD-2041W and LMD-1541W)

Input versatility

The LMD-2341W, LMD-2041W, and LMD-1541W are equipped with built-in standard input interfaces: two SDI (3G/HD/SD-SDI), one composite, and one HDMI input.



The LMD-2341W, LMD-2041W, and LMD-1541W connector panel

Other features

- Key Inhibit function
- I/P mode selection
- H/V Delay function
- Blue Only mode
- Auto chroma/phase setup
- Power-saving function
- DC operation
 - LMD-2341W: 24 V
 - LMD-2041W and LMD-1541W: 12 V
- VESA standard mounting (100 x 100 mm pitch)
- EIA 19-inch standard rack-mount with the supplied mounting brackets (LMD-2041W), and the optional MB-534 mounting bracket (LMD-1541W)



LMD-940W

The LMD-940W is a 9-inch* measured diagonally, WVGA resolution (800 x 480 pixels) LUMA high-grade type high-performance monitor incorporating a 10-bit signal processing and Sony's unique ChromaTRU technology to deliver superb picture performance and consistency. It also offers a convenient compact size with the mobility and smart functions required for both indoor and outdoor use.



* 227 mm viewable area, measured diagonally.

Usable Body Design for Indoor, Outdoor Uses

Robust, lightweight, and compact body

Incorporating a lightweight and compact aluminum-diecast body, this model is flexible enough to change style according to user requirements: with or without a stand, tilted on a stand (15-degree slant), EIA 19-inch standard rack-mounted, or set on a camera pedestal.



Tilt stand

With stand

Without stand



LMD-940W with optional MB-531 and MB-532



1/4 inch hole
3/8 inch hole

LMD-940W base with camera pedestal holes

Detachable AR (anti-reflection)-coated protection panel

AR-coated protection panel keeps the LCD panel surface from scratching. In addition, it provides a high transmission rate of the internal light source to keep the picture as bright as possible, and it keeps reflection from ambient light to a minimum.



Protection panel

Hood Kit VF-510

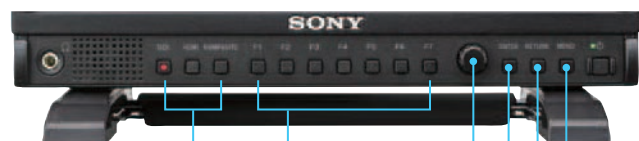
The optional VF-510 Hood Kit provides a viewing hood, carrying handle, and connector protector.



LMD-940W with VF-510

Control panel design

The LMD-940W incorporates a new control panel design. Seven functions can be programmed to the assignable buttons. Button lights are dimmable and indicator lights are on/off switchable. This function allows users to easily operate a monitor in a dark environment without interference of the lights.



Input selection buttons

Up/down Volume & Enter/set button

Assignable function buttons

Default setting: F1 (BRIGHTNESS)
F3 (CHROMA)
F5 (H/V DELAY)
F7 (I/P MODE*)
F2 (CONTRAST)
F4 (SCAN)
F6 (VOLUME)

*Picture Delay Minimum Mode

Enter/set button

Return button

Menu on/off button

Operational Convenience

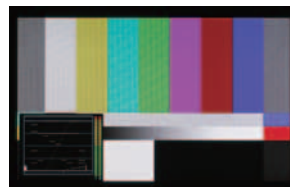
Camera focus function

The LMD-940W can control and increase the aperture level of a video signal, and display images on the screen with sharpened edges to help camera focus operation. This camera focus function can be even enhanced when combined with the native scan mode.

Waveform monitor and audio level meter display*

An input signal's waveform with a 2-channel audio level meter can be displayed on screen. An SDI-embedded audio level can be displayed on screen with an 8-channel audio level meter.

* The LMD-940W supports the on-screen audio level meter when it receives an SDI-embedded audio signal.



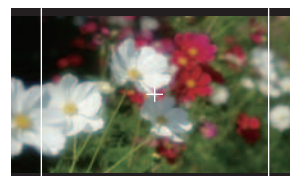
Waveform monitor



Audio level meter

Center marker and aspect marker setting

The LMD-940W can display a center marker as well as aspect markers. The brightness of these markers can be selected from three different levels: white, gray, and dark gray. Users can also select either a black or gray mat to fill the outer area of the aspect markers.



4:3 aspect marker image



16:9 aspect marker image

* Simulated images

Other features

- Fan-motor control function
- Excellent picture quality with its WVGA panel (NTSC/PAL)
- AC/DC operations

Common features with the LUMA high-grade type

- Color Temperature (D65, D93, or user preset)
- Scan Setting: Normal (0%), Over scan (5%), Native scan
- Auto White Balance Calibration Function
- External Remote Control Function
- Protected Controls (Key Inhibit Function)
- I/P Mode Selection
- Three-color Tally
- Power-saving Mode
- Auto Chroma/Phase Function
- Blue Only Mode
- H/V Delay Mode
- Select Language Display

LMD-30/10 Series – Entry-level LCD Monitor



LMD-1530W



LMD-2110W



LMD-1510W

Model Types

	LMD-1530W	LMD-2110W	LMD-1510W
Panel size (diagonal)	15.3-inch	21.5-inch	15.6-inch
Resolution (pixels)	1280 x 768 (WXGA)	1920 x 1080 (Full HD)	1366 x 768 (WXGA)
Aspect ratio	15:9	16:9	16:9
Desktop stand	Standard	Standard	Standard
EIA 19-inch rack-mount	Optional MB-533	Optional MB-529	Optional MB-535
VESA mounting (mm)	100 x 100	100 x 100	100 x 100

- High-purity color filters, and excellent brightness and contrast
- 109% peak white and 10-bit signal processing
- Color temperature and gamma selection
- Picture delay minimum mode (LINE DOUBLER)
- Versatile signal inputs including SDI* and HDMI
- Marker setting including aspect markers, a center marker, and safety area markers

* HD-SDI input with the optional BKM-341HS HD/SD-SDI input adaptor and SD-SDI input with the optional BKM-320D input adaptor.

Full compatibility
with professional HD equipment



Easy connection
with consumer products



High Picture Performance

High purity color filters

Equipped with high-purity RGB color filters, LMD-30/10 Series monitors achieve color reproduction with stunning depth and saturation.

Excellent brightness and contrast

LMD-30/10 Series monitors provide high-brightness, high contrast images thanks to their wide aperture LCD panels. In addition, the use of precisely manufactured RGB color filters allows these monitors to reproduce colors with stunning depth and saturation – creating highly natural images.

109% peak white and 10-bit signal processing

Incorporating high-purity RGB color filters and 10-bit signal processing engine, LMD-30/10 Series monitors offer stunning 109% peak white reproduction without clipping and a smooth gray scale along CRT-like gamma.



8-bit (256-levels) image*



10-bit (1024-levels) image*

* Simulated images

Color temperature/gamma selection

With the LMD-30/10 Series monitors, users can select from high, low, or preset color temperatures. A variety of gamma modes can also be selected.



Incorrect gamma image*



Correct gamma image*

* Simulated images

I/P mode selection

LMD-30/10 Series monitors provide two I/P modes so that users can select the most suitable mode for each purpose:

■ INTER-FIELD:

This mode interpolates images between fields. This is used for picture quality precedence (e.g., to reduce the jagged effect on moving pictures).

■ LINE DOUBLER:

This mode interpolates by repeating each line. This is used for editing and monitoring fast-moving images, and checking line flicker. The minimum processing time is less than one field (0.5 frames).

Picture Delay Minimum

Audio is just as much a part of the show as video, and timing is always an issue. Picture Delay Minimum mode is selectable to minimize I/P conversion times for audio synchronization during editing. By selecting "LINE DOUBLER" in IP mode, the signal processing (I/P conversion) period is less than one field (0.5 frames).

Operational Convenience

Marker settings

LMD-30/10 Series monitors can display a center marker, aspect markers, and safety area markers in different sizes.* The brightness of these markers can be set at different levels. These flexible marker settings make these monitors extremely convenient display devices for a variety of shooting scenarios.

* 80%, 85%, 88%, 90%, or 93% can be selected.



4:3 aspect marker image*



16:9 aspect marker image*



Safety area marker image*

* Simulated images

Selectable scan size for video input and aspect ratio

With LMD-30/10 Series monitors, the scan size can be selected: Normal (0%), Over (5%), and Full scan.

The aspect ratio can be switched between 16:9 and 4:3 according to the input signal.

Three-color tally

LMD-30/10 Series monitors are equipped with a tally lamp that can be lit via a parallel remote connector. The status of the signal displayed on the monitor can be identified by the tally color: red, green, or amber.

Monaural audio monitoring

LMD-30/10 Series monitors are equipped with a speaker (0.5 W), which enables the user to monitor audio.

Protected controls

With LMD-30/10 Series monitors, the key-inhibit function helps prevent inadvertent operation from the control panel.

Mounting Flexibility and Remote Access

Mountable in an EIA 19-inch Standard Rack

LMD-30/10 Series monitors can be mounted in a EIA 19-inch standard rack using optional mounting brackets. The 7U-high LMD-1530W uses the MB-533 and LMD-1510W uses MB-535 respectively. The 9U-high LMD-2110W uses MB-529 Mounting Bracket.

VESA mounting

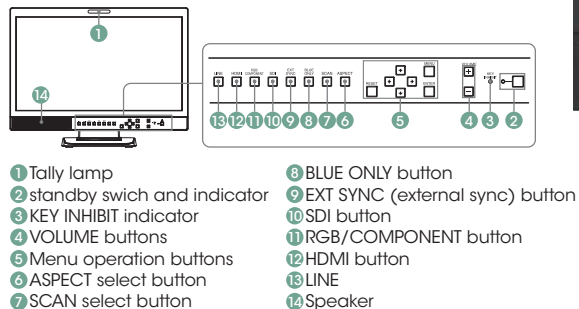
VESA standard mounting holes (100 x 100 mm pitch) are provided on LMD-30/10 Series monitors to enable wall or ceiling installation.

Parallel remote control

These entry-level type LMD-30/10 Series monitors can be controlled remotely via their parallel remote connectors. In the remote menu, there are 16 functions for the LMD-1530W and LMD-2110W, and 21 functions for the LMD-1510W, of which seven can be allocated to the remote connector.

Control panel

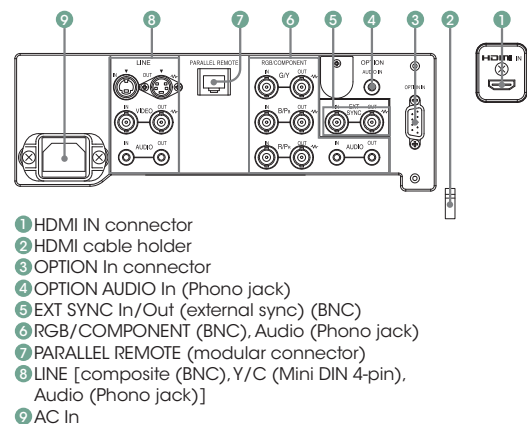
LMD-1530W / LMD-2110W / LMD-1510W



LMD-1510W

Connector panel

LMD-1530W / LMD-2110W / LMD-1510W



LMD-1510W

Input Versatility

Standard inputs and expandability

LMD-30/10 Series monitors are equipped with a full range of analog SD inputs including analog composite NTSC and PAL, Y/C (S-Video), and 525i/625i component and RGB. These monitors can also handle HD-SDI input with an optional BKM-341HS HD/SD-SDI input adaptor and SD-SDI input, using the optional BKM-320D SD-SDI input adaptor. This optional feature allows this monitor to connect to HD-SDI equipment for wide range of broadcast and post-production applications. Furthermore, these monitors offer an HD signal input capability via their HDMI and analog component interface, and can also accept DVI signals via the HDMI interface.*

* Requires a DVI conversion cable.



LMD-30/10 Series with the optional BKM-341HS HD/SD-SDI adaptor

LMD-51/40/41 Series Input signals / Input adaptors (As for the 3D signals, refer to the page 19.)

Video Signal Formats	Input signals				LMD-2451W / LMD-1751W / LMD-4251TD / LMD-2451TD					LMD-2341W / LMD-2041W LMD-1541W / LMD-940W		
	Total Line	Active Line	Aspect Ratio	Frame Rate *1	Composite Y/C	RGB Component	SDI 4:2:2	HD-SDI SD-SDI	3G/HD/ SD-SDI	Composite	3G/HD/ SD-SDI	HDMI
					Standard					Standard		
					Options							
					BKM-227W	BKM-229X	BKM-220D	BKM-243HS BKM-244CC	BKM-250TG			
575/50i (PAL)	625	575	16:9 & 4:3	25	○	○	○	○	○	○	○	○
480/60i (NTSC)*1	525	483	16:9 & 4:3	30	○	○	○	○	○	○	○	○
576/50p	625	576	16:9 & 4:3	50	N.A.	○	N.A.	N.A.	N.A.	N.A.	N.A.	○
480/60p	525	483	16:9 & 4:3	60	N.A.	○	N.A.	N.A.	N.A.	N.A.	N.A.	○
640 x 480/60p*1	525	480	4:3	60	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	○
1080/24PsF*1*3	1125	1080	16:9	24	N.A.	○*2	N.A.	○	○	N.A.	○	N.A.
1080/25PsF*3	1125	1080	16:9	25	N.A.	○*2	N.A.	○	○	N.A.	○	N.A.
1080/24p*1	1125	1080	16:9	24	N.A.	○*2	N.A.	○	○	N.A.	○	○
1080/25p	1125	1080	16:9	25	N.A.	○*2	N.A.	○	○	N.A.	○	○
1080/30p*1	1125	1080	16:9	30	N.A.	○*2	N.A.	○	○	N.A.	○	○
1080/50i	1125	1080	16:9	25	N.A.	○	N.A.	○	○	N.A.	○	○
1080/60i*1	1125	1080	16:9	30	N.A.	○	N.A.	○	○	N.A.	○	○
720/50p	750	720	16:9	50	N.A.	○*2	N.A.	○	○	N.A.	○	○*4
720/60p*1	750	720	16:9	60	N.A.	○	N.A.	○	○	N.A.	○	○*4
1080/50p	1125	1080	16:9	50	N.A.	N.A.	N.A.	N.A.	○*5	N.A.	○*5	○*4
1080/60p*1	1125	1080	16:9	60	N.A.	N.A.	N.A.	N.A.	○*5	N.A.	○*5	○*4

*1 Compatible with 1/1.001.

*2 For component input only.

*3 Displayed as 1080/48i and 1080/50i on the screen, respectively.

*4 LMD-2341 and LMD-1541 can accept DVI signals via the HDMI interface using a conversion cable.

*5 10-bit 4:2:2 Y/Cb/Cr is supported.

LMD-30/10 Series Video Input Signals / Input Adaptors

Input Signal				Interface				
System	Total Line	Active Line	Aspect Ratio	Composite Y/C	RGB Component	SD-SDI	HD-SDI SD-SDI	HDMI
				Standard		Options		Standard
						BKM-320D	BKM-341HS	
575/50i (PAL)	625	575	16:9/4:3	○	○	○	○	○
480/60i (NTSC)*1	525	483	16:9/4:3	○	○	○	○	○
576/50p	625	576	16:9/4:3	N.A.	○	N.A.	N.A.	○
480/60p	525	483	16:9/4:3	N.A.	○	N.A.	N.A.	○
1080/24PsF	1125	1080	16:9	N.A.	N.A.	N.A.	○	N.A.
1080/25PsF	1125	1080	16:9	N.A.	N.A.	N.A.	○	N.A.
1080/24p*1	1125	1080	16:9	N.A.	○*2	N.A.	○	○
1080/25p	1125	1080	16:9	N.A.	○*2	N.A.	○	○
1080/30p*1	1125	1080	16:9	N.A.	○*2	N.A.	○	○
1080/50i	1125	1080	16:9	N.A.	○	N.A.	○	○
1080/60i*1	1125	1080	16:9	N.A.	○	N.A.	○	○
720/50p	750	720	16:9	N.A.	○*2	N.A.	○	○
720/60p*1	750	720	16:9	N.A.	○	N.A.	○	○

*1 Compatible with 1/1.001.

*2 For component input only.

LMD-51 Series HD-15 Input Signal Format

Resolution	H Total	H addr.	V Total	V Addr.	Dot Clock	fH	fV	Sync Polarity		LMD-4251TD	LMD-2451TD LMD-2451W	LMD-1751W
					[MHz]	[kHz]	[Hz]	Horizontal	Vertical			
640 x 480@60Hz*	800	640	525	480	25.175	31.469	59.940	N	N	○	○	○
640 x 480@60Hz	800	640	494	480	23.625	29.531	59.780	P	N	○	○	○
720 x 400@70Hz*2	900	720	449	400	28.322	31.469	70.087	N	P	○	○	○
800 x 600@56Hz*	1024	800	625	600	36.000	35.156	56.250	P	P	○	○	○
800 x 600@60Hz*	1056	800	628	600	40.000	37.879	60.317	P	P	○	○	○
800 x 600@60Hz	960	800	618	600	35.500	36.979	59.837	P	N	○	○	○
800 x 600@72Hz*	1040	800	666	600	50.000	48.077	72.188	P	P	○	○	○
800 x 600@75Hz*	1056	800	625	600	49.500	46.875	75.000	P	P	○	○	○
800 x 600@85Hz*	1048	800	631	600	56.250	53.674	85.061	P	P	○	○	○
1024 x 768@60Hz*	1344	1024	806	768	65.000	48.363	60.004	N	N	○	○	○
1024 x 768@60Hz	1184	1024	790	768	56.000	47.297	59.870	P	N	○	○	○
1024 x 768@70Hz*	1328	1024	806	768	75.000	56.476	70.069	N	N	○	○	○
1024 x 768@75Hz*	1312	1024	800	768	78.750	60.023	75.029	P	P	○	○	○
1024 x 768@85Hz*	1376	1024	808	768	94.500	68.677	84.997	P	P	○	○	○
1152 x 864@75Hz*	1600	1152	900	864	108.000	67.500	75.000	P	P	○	○	
1280 x 768@50Hz	1648	1280	791	768	65.125	39.518	49.959	N	P	○	○	○
1280 x 768@60Hz	1680	1280	795	768	80.125	47.693	59.992	N	P	○	○	○
1280 x 768@60Hz	1440	1280	790	768	68.250	47.396	59.995	P	N	○	○	○
1280 x 768@75Hz	1712	1280	802	768	102.875	60.091	74.926	N	P	○	○	○
1280 x 800@60Hz*1					68.900	48.935	59.969	N	N	○	○	○
1280 x 960@60Hz*	1800	1280	1000	960	108.000	60.000	60.000	P	P	○	○	○
1280 x 960@60Hz	1440	1280	988	960	85.250	59.201	59.920	P	N	○	○	
1280 x 1024@60Hz*	1688	1280	1066	1024	108.000	63.981	60.020	P	P	○	○	○
1280 x 1024@60Hz	1440	1280	1054	1024	91.000	63.194	59.957	P	N	○	○	○
1360 x 768@50Hz	1760	1360	791	768	69.500	39.489	49.922	N	P	○	○	
1360 x 768@60Hz	1776	1360	768	768	84.625	47.649	59.936	N	P	○	○	
1360 x 768@60Hz	1520	1360	790	768	72.000	47.368	59.960	P	N	○	○	
1600 x 1200@50Hz	2144	1600	1235	1200	132.375	61.742	49.994	N	P		○	
1600 x 1200@60Hz	1760	1600	1235	1200	130.375	74.077	59.981	P	N		○	
1920 x 1080@50Hz	2544	1920	1112	1080	141.375	55.572	49.975	N	P	○	○	○
1920 x 1080@60Hz	2080	1920	1111	1080	138.625	66.647	59.988	P	N	○	○	○

=VESA-DMT
 =VESA-CVT VCRT
 N = Negative P = Positive * SOG *1 Anycast Station *2 Matrix

LMD-51 Series DVI-D Input Signal Formats

	LMD-4251TD / LMD-2451TD / LMD-2451W	LMD-1751W
Vertical frequency	50.0 Hz to 85.1 Hz	
Horizontal frequency	31.5 kHz to 77.0 kHz	
Dot clock	25.175 MHz to 148.500 MHz	25.175 MHz to 141.000 MHz
Picture size, phase	Automatically detected by the DE (Data Enable) signal	

LMD-30/10 Series DVI Input Signals

Resolution	Dot clock (MHz)	fH (kHz)	fV (Hz)	LMD-1530W	LMD-2110W / LMD-1510W
720 x 400 70Hz	28.322	31.469	70.087	○	○
800 x 600 56Hz	36.000	35.156	56.250	○	○
800 x 600 60Hz	40.000	37.879	60.317	○	○
1024 x 768 60Hz	65.000	48.363	60.004	○	○
1280 x 768 60Hz	79.500	47.776	59.870	○	-
1280 x 1024 60Hz	108.000	63.981	60.020	-	○

*A DVI conversion cable is required.

Feature Comparison

	PVM-2541	PVM-1741	PVM-740	LMD-4251TD	LMD-2451TD LMD-2451W	LMD-1751W
Panel type	OLED			a-Si TFT Active Matrix LCD		
Picture size (viewable area, measured diagonally)	24.5-inch	16.5-inch	7.4-inch	42-inch	24-inch	17-inch
Resolution (pixels)	1920 x 1080 (Full HD)		960 x 540 (QHD)	1920 x 1080 (Full HD)	1920 x 1200 (WUXGA)	1280 x 768 (WXGA)
Aspect ratio	16:9			16:9	16:10	15:9
Panel drive / Colors	10-bit			Approx. 16.7 million colors		
Input interface						
Composite	BNC (x1)			BNC (x1), Optional BKM-227W BNC (x1)		
Y/C	-			Mini-DIN 4-pin (x1), Optional BKM-227W Mini-DIN 4-pin (x1)		
RGB / Component	-			BNC (x3), Optional BKM-229X BNC (x3)		
SD-SDI	BNC (x2)		BNC (x1)	Optional BKM-220D BNC (x2)		
HD/SD-SDI				Optional BKM-243HS, BKM-244CC BNC (x2)		
3G/HD/SD-SDI				Optional BKM-250TG BNC (x2)		
HDMI	HDMI (x1)*1		HDMI (x1)	-		
DVI-D	-			DVI-D (x1)		
HD15	-			D-sub 15-pin (x1)		
Audio	Stereo mini jack (x1)			Phono jack (x2) (L/R)		
External sync	-			BNC (x1), Optional BKM-229X BNC (x1)		
Option slot	-			2 slots		
Output interface						
Composite	BNC (x1)*2			BNC (x1)*2, Optional BKM-227W BNC (x1)*2		
Y/C	-			Mini-DIN 4-pin (x1)*2, Optional BKM-227W Mini-DIN 4-pin (x1)*2		
RGB / Component	-			BNC (x3)*2		
SD-SDI	BNC (x1)*2			Optional BKM-220D BNC (x1)*2		
HD/SD-SDI				Optional BKM-243HS, BKM-244CC BNC (x1)*2		
3G/HD/SD-SDI				Optional BKM-250TG BNC (x2)*2		
External sync	-					
Audio monitor out	Stereo mini jack (x1)			Phono jack (x2) (L/R)		
Speaker (built-in)	1.0 W (mono)		0.5 W (mono)	1.0 W + 1.0 W (stereo)		
Headphone output	Stereo mini jack (x1)			-		
Remote control						
Parallel remote	Modular connector 8-pin (x1)			Modular connector 8-pin (x1)		
Serial remote (LAN)	RJ-45 modular connector (Ethernet) (x1)			RJ-45 modular connector (Ethernet) (x1) D-sub 9-pin (RS-232C) (x1)		
Features						
Signal processing	10-bit			10-bit		
Auto white balance calibration*3	○			○		
I/P mode selection	4 modes		3 modes	3 modes*4		
Power saving mode	-			○		
Screen saver	○			-		
Markers	Aspect, Center, Safety		Aspect, Center	Aspect, Center, Safety		
Waveform monitor	○			○		
Audio level meter (SDI-embedded audio)	○			○*5		
Time code display (SDI-embedded time code)	○		-	-		○*6
Color temperature (D65, D93, and user)	○			○		
Closed caption	-			EIA 608 (standard), EIA 708 (optional BKM-244CC)		
Aspect switch (16:9, 4:3)	○			○		
Scan mode (Normal (0%), Over (5%), Native)	○			○		○*7
Blue only	○			○		
H/V delay	○			○		
Tally	3 colors			3 colors		
EIA 19-inch rack-mounting	-	Supplied brackets	Optional MB-531	-		Optional MB-530
VESA mounting	100 x 100 mm		-	400 x 400 mm	100 x 100 mm	100 x 100 mm 75 x 75 mm
Desktop stand	Standard monitor feet, Optional SU-561		Standard	-	Standard	Optional SU-561
DC operation	-	12 V		-	24 V	12 V
3D Features				LMD-4251TD	LMD-2451TD	
Micro-polarizer 3D filter				○		
Light-weight circular polarizer 3D glasses				Supplied BKM-30G (2 sets)		
3G-SDI level-B input*6				○		
Dual-stream HD-SDI input*6				○		
HD-SDI input*6				○		
DVI-D line-by-line input				○		
3D display functions*6				○		
2D/3D select				○		

*1 DVI signals can be input via the HDMI interface using a conversion cable. *2 Loop-through, automatic termination. *3 This works with the combination of a PC and a commercially available calibration tools (Konica Minolta CA-210/CA-310/CS-200, DK-Technologies PM5639/06, X-Rite i1 (Eye-one) Pro, Photo Research PR-670, Klein K-10, and JETI specbos 1211). *4 With the LMD-4251TD and LMD-2451TD 3D monitors, the I/P mode is fixed to Field Merge mode on 3D mode. *5 The 8-ch audio level meter can be displayed when the optional BKM-250TG input adaptor is installed. *6 An optional BKM-250TG 3G-SDI input adaptor is required. *7 LMD-2451W and LMD-1751W further support a full scan mode. The full scan and native scan modes work on specific signal formats.

	LMD-2341W	LMD-2041W	LMD-1541W	LMD-940W	LMD-1530W	LMD-2110W	LMD-1510W
Panel type	a-Si TFT Active Matrix LCD				a-Si TFT Active Matrix LCD		
Picture size (viewable area, measured diagonally)	23-inch	20-inch	15.3-inch	9-inch	15.3-inch	21.5-inch	15.6-inch
Resolution (pixels)	1920 x 1080 (Full HD)	1600 x 900	1280 x 768 (WXGA)	800 x 480 (WVGA)	1280 x 768 (WXGA)	1920 x 1080 (Full HD)	1366 x 768 (WXGA)
Aspect ratio	16:9		15:9		15:9	16:9	
Panel drive / Colors	Approx. 16.7 million colors				Approx. 16.7 million colors		
Input interface							
Composite	BNC (x1)				BNC (x1)		
Y/C	-				Mini-DIN 4-pin (x1)		
RGB / Component	-				BNC (x3)		
SD-SDI	BNC (x2)			BNC (x1)	Optional BKM-320D BNC (x1)		
HD/SD-SDI					Optional BKM-341HS BNC (x1)		
3G/HD/SD-SDI					-		
HDMI	HDMI (x1)*1			HDMI (x1)	HDMI (x1)*1		
DVI-D	-				-		
HD15	-				-		
Audio	Stereo mini jack (x1)				Phono jack (x3)		
External sync	-				BNC (x1)		
Option slot	-				-		
Output interface							
Composite	BNC (x1)*2				BNC (x1)*2		
Y/C	-				Mini-DIN 4-pin (x1)*2		
RGB / Component	-				BNC (x3)*2		
SD-SDI	BNC (x1)*2				-		
HD/SD-SDI					-		
3G/HD/SD-SDI					-		
External sync	-				BNC (x1)*2		
Audio monitor out	Stereo mini jack (x1)				Phono jack (x2)		
Speaker (built-in)	1.0 W (mono)			0.5 W (mono)	0.5 W (mono)		
Headphone output	Stereo mini jack (x1)				-		
Remote control							
Parallel remote	Modular connector 8-pin (x1)				Modular connector 8-pin (x1)		
Serial remote (LAN)	RJ-45 modular connector (Ethernet) (x1)				-		
Features							
Signal processing	10-bit				10-bit		
Auto white balance calibration*3	○				-		
I/P mode selection	3 modes				2 modes		
Power saving mode	○				-		
Markers	Aspect, Center, Safety			Aspect, Center	Aspect, Center, Safety		
Waveform monitor	○				-		
Audio level meter (SDI-embedded audio)	○				-		
Time code display (SDI-embedded time code)	○			-	-		
Color temperature (D65, D93, and user)	○				High, Low, User		
Closed caption	-				-		
Aspect switch (16:9, 4:3)	○				○		
Scan mode (Normal (0%), Over (5%), Native)	○				0%, 5%, Full		
Blue only	○				○		
H/V delay	○				-		
Tally	3 colors				3 colors		
EIA 19-inch rack-mounting	-	Supplied brackets	Optional MB-534	Optional MB-531	Optional MB-533	Optional MB-529	Optional MB-535
VESA mounting	100 x 100 mm			-	100 x 100 mm		
Desktop stand	Supplied monitor feet			Standard	Standard		
	Optional SU-561		Optional SU-561, SU-562				
DC operation	24 V	12 V			-		

*1 DVI signals can be input via the HDMI interface using a conversion cable.

*2 Loop-through, automatic termination.

*3 This works with the combination of a PC and a commercially available calibration tools (Konica Minolta CA-210/CA-310/CS-200, DK-Technologies PM5639/06, X-Rite i1 (Eye-one) Pro, Photo Research PR-670, Klein K-10, and JETI specbos 1211).

Specifications

PVM Series



PVM-2541



PVM-1741



PVM-740

Picture Performance			
Panel	OLED panel		
Picture size (diagonal)	24 5/8 inches 623.4 mm	16 1/2 inches 419.7 mm	7 1/2 inches 188.0 mm
Effective picture size (H x V)	21 1/2 x 12 1/8 inches 543.4 x 305.6 mm	14 1/2 x 8 1/8 inches 365.8 x 205.7 mm	6 1/2 x 3 5/8 inches 163.9 x 92.2 mm
Resolution (H x V)	1920 x 1080 pixels (Full HD)		960 x 540 pixels (QHD)
Aspect	16:9		
Panel drive	RGB 10-bit		
Viewing angle (panel specification)	89°/89°/89°/89° (typical) (up/down/left/right contrast > 10:1)		
Input			
Composite	BNC (x1), 1.0 Vp-p ±3 dB sync negative		
SDI	BNC (x2)		BNC (x1)
HDMI	HDMI (x1) (HDCP correspondence)		
Audio	Stereo mini jack (x1), -5 dBu 47 kilohms or higher		
Parallel remote	Modular connector 8-pin (x1) (pin-assignable)		
Serial remote (LAN)	RJ-45 modular connector (Ethernet) (x1) (10BASE-T/100BASE-TX)		
DC IN connector	–	XLR-type 4-pin (male) (x1), 12 V DC (output impedance 0.05 ohms or less)	
Output			
Composite	BNC (x1), loop-through, with 75 ohms automatic termination		
SDI	BNC (x1), output signal amplitude: 800 mVp-p ±10%, output impedance: 75 ohms unbalanced		
Audio monitor out	Stereo mini jack (x1)		
Speaker (Built-in)	1.0 W (mono)		0.5 W (mono)
Headphones output	Stereo mini jack (x1)		
General			
Power requirement	AC 100 V to 240 V, 50/60 Hz, 1.4 A to 0.6 A	AC 100 V to 240 V, 50/60 Hz, 1.0 A to 0.5 A, DC 12 V, 7.0 A	AC 100 V to 240 V, 50/60 Hz, 0.5 A to 0.3 A, DC 12 V, 1.9 A
Power consumption	Approx. 130 W (max.) Approx. 88 W (average power consumption in the default status)	Approx. 90 W (AC power supply) (max.) Approx. 70 W (AC power supply) (average power consumption in the default status)	Approx. 27 W (max.)
Operating temperature	32°F to 95°F (0°C to 35°C) Recommended: 68°F to 86°F (20°C to 30°C)		32°F to 104°F (0°C to 40°C) Recommended: 68°F to 86°F (20°C to 30°C)
Operating humidity	30% to 85% (no condensation)		
Storage and transport temperature	-4°F to +140°F (-20°C to +60°C)		
Storage and transport humidity	0% to 90%		
Operating, storage, and transport pressure	700 hPa to 1060 hPa		
Dimensions (W x H x D) (with stand)	22 3/4 x 16 3/4 x 6 3/4 inches 576.6 x 424.8 x 171.4 mm	17 1/4 x 12 1/8 x 6 3/8 inches 436.9 x 305.6 x 161.0 mm	8 7/8 x 7 1/4 x 6 3/8 inches 222.4 x 183.5 x 161.8 mm (when AC adaptor is attached)
Dimensions (W x H x D) (without stand)	22 3/4 x 16 1/8 x 4 3/8 inches 576.0 x 408.8 x 110.0 mm	17 1/4 x 11 1/2 x 4 3/4 inches 436.0 x 289.6 x 120.0 mm	8 7/8 x 6 5/8 x 2 7/8 inches 222.4 x 166 x 70 mm (when AC adaptor is detached)
Weight	23 lb 5.9 oz 10.6 kg	15 lb 14 oz 7.2 kg	4 lb 6 oz 2.0 kg
	27 lb 16 oz 12.7 kg	20 lb 8 oz 9.3 kg	5 lb 12 oz 2.6 kg
	(with an optional SU-561 monitor stand)	(with an optional SU-561 monitor stand)	(When AC adaptor is installed)
Supplied accessories	AC power cord (1), AC plug holder (1), Operating Instructions (1), CD-ROM (1), Using the CD-ROM manual (1)	AC power cord (1), AC plug holder (1), Mounting bracket (2) (including 4 screws), Operating Instructions (1), CD-ROM (1), Using the CD-ROM manual (1)	AC power cord (1), AC plug holder (1), AC power adaptor (1), Operating Instructions (1), CD-ROM (1), Using the CD-ROM manual (1)

LMD-51 Series



LMD-2451W



LMD-1751W

Picture Performance		
Panel	a-Si TFT Active Matrix LCD	
Picture size (diagonal)	24 inches 613.2 mm	17 inches 431.1 mm
Effective picture size (H x V)	20 1/2 x 12 7/8 inches 518.4 x 324.0 mm	14 5/8 x 8 3/4 inches 369.6 x 221.8 mm
Resolution (H x V)	1920 x 1200 pixels (WUXGA)	1280 x 768 pixels (WXGA)
Aspect	16:10	15:9
Colors	Approx. 16.7 million colors	
Viewing angle	89°/89°/89°/89° (typical) (up/down/left/right contrast > 10:1)	
Input		
Composite	BNC (x1), 1.0 Vp-p ±3 dB sync negative	
Y/C	Mini DIN 4-pin (x1) Y: 1.0 Vp-p ±3 dB sync negative C: 0.286 Vp-p ±3 dB (NTSC burst signal level), 0.3 Vp-p ±3 dB (PAL burst signal level)	
RGB, Component	BNC (x3) RGB: 0.7 Vp-p ±3 dB (Sync On Green, 0.3 Vp-p sync negative) Component: 0.7 Vp-p ±3 dB (75% chrominance standard color bar signal)	
DVI-D	DVI-D (x1), TMDS single link	
HD15	D-sub 15-pin (x1) R/G/B: 0.7 Vp-p sync positive (Sync On Green, 0.3 Vp-p sync negative) Sync: Total level (polarity free, H/V separate sync) Plug & Play function: corresponds to DDC2B	
Audio	Phono jack (x2) (L, R), -5 dBu 47 kilohms or higher	
External sync	BNC (x1) 0.3 Vp-p to 4.0 Vp-p ± bipolarity ternary or negative polarity binary	
Option slot	2 slots Signal format: H: 15 kHz to 45 kHz, V: 48 Hz to 60 Hz	
Parallel remote	Modular connector 8-pin (x1) (Pin-assignable)	
Serial remote	D-sub 9-pin (RS-232C) (x1), RJ-45 modular connector (Ethernet) (x1) (10BASE-T/100BASE-TX)	
DC in	XLR-type 4-pin (male) (x1), DC 24 V (output impedance 0.05 ohms or less)	XLR-type 4-pin (male) (x1), DC 12 V (output impedance 0.05 ohms or less)
Output		
Composite	BNC (x1), loop-through, with 75 ohms automatic termination	
Y/C	Mini DIN 4-pin (x1), loop-through, with 75 ohms automatic termination	
RGB, Component	BNC (x3), loop-through, with 75 ohms automatic termination	
External sync	BNC (x1), loop-through, with 75 ohms automatic termination	
Audio monitor out	Phono jack (x2) (L, R)	
Speaker (built-in)	1.0 W + 1.0 W (stereo)	
General		
Power requirements	AC 100 V to 240 V, 50/60 Hz, 1.5 A to 0.7 A DC 24 V, 5.7 A	AC 100 V to 240 V, 50/60 Hz, 0.8 A to 0.4 A DC 12 V, 5.7 A
Power consumption	Approx. 130 W (max.) (with 2 x BKM-229X)	Approx. 77 W (max.) (with 2 x BKM-229X)
Operating temperature	32°F to 95°F (0°C to 35°C) Recommended: 68°F to 86°F (20°C to 30°C)	
Operating humidity	30% to 85% (no condensation)	
Storage and transport temperature	-4°F to +140°F (-20°C to +60°C)	
Storage and transport humidity	0% to 90%	
Operating, storage, and transport pressure	700 hPa to 1060 hPa	
Dimensions (W x H x D) (with stand)	23 3/4 x 19 5/8 x 10 3/4 inches 602.4 x 497.9 x 269.9 mm	17 3/8 x 15 1/4 x 10 3/4 inches 439.5 x 385.7 x 269.9 mm (stand is optional)
Dimensions (W x H x D) (without stand)	23 3/4 x 15 1/4 x 4 3/8 inches 602.4 x 386.2 x 110.0 mm	17 3/8 x 11 1/4 x 4 1/4 inches 439.5 x 284.0 x 105.0 mm
Weight (with options)	25 lb 2 oz 11.4 kg (with 2 x BKM-229X)	19 lb 6 oz 8.8 kg (with SU-561 and 2 x BKM-229X)
Weight	24 lb 4 oz 11.0 kg	13 lb 14 oz 6.3 kg
Supplied accessories	AC power cord (1), AC plug holder (1), Operating Instructions (1), CD-ROM (1), Using the CD-ROM Manual (1)	

LMD-51 Series (3D Monitors)



LMD-4251TD



LMD-2451TD

Picture Performance		
Panel	a-Si TFT Active Matrix LCD	
Picture size (diagonal)	42 1/8 inches 1067.0 mm	24 1/4 inches 613.2 mm
Effective picture size (H x V)	36 3/4 x 20 3/4 inches 930.0 x 523.0 mm	20 1/2 x 12 7/8 inches 518.4 x 324.0 mm
Resolution (H x V)	1920 x 1080 pixels (Full HD)	1920 x 1200 pixels (WUXGA)
Aspect	16:9	16:10
Colors	Approx. 16.7 million colors	
Viewing angle (2D mode)	89°/89°/89°/89° (typical) (up/down/left/right contrast > 10:1)	
Vertical viewing angle (3D mode)	46° at a viewing distance more than 620 mm, crosstalk less than 7% (typical)	54° at a viewing distance more than 320 mm, crosstalk less than 7% (typical)
Input		
Composite	BNC (x1), 1.0 Vp-p ±3 dB sync negative	
Y/C	Mini DIN 4-pin (x1) Y: 1.0 Vp-p ±3 dB sync negative C: 0.286 Vp-p ±3 dB (NTSC burst signal level), 0.3 Vp-p ±3 dB (PAL burst signal level)	
RGB, Component	BNC (x3) RGB: 0.7 Vp-p ±3 dB (Sync On Green, 0.3 Vp-p sync negative) Component: 0.7 Vp-p ±3 dB (75% chrominance standard color bar signal)	
DVI-D	DVI-D (x1), TMDS single link	
HD15	D-sub 15-pin (x1) R/G/B: 0.7 Vp-p sync positive (Sync On Green, 0.3 Vp-p sync negative) Sync: Total level (polarity free, H/V separate sync) Plug & Play function: corresponds to DDC2B	
Audio	Phono jack (x2) (L, R), -5 dBu 47 kilohms or higher	
External sync	BNC (x1) 0.3 Vp-p to 4.0 Vp-p ± bipolarity ternary or negative polarity binary	
Option slot	2 slots Signal format: H: 15 kHz to 45 kHz, V: 48 Hz to 60 Hz	
Parallel remote	Modular connector 8-pin (x1) (Pin-assignable)	
Serial remote	D-sub 9-pin (RS-232C) (x1), RJ-45 modular connector (Ethernet) (x1) (10BASE-T/100BASE-TX)	
DC in	—	XLR-type 4-pin (male) (x1), DC 24 V (output impedance 0.05 ohms or less)
Output		
Composite	BNC (x1), loop-through, with 75 ohms automatic termination	
Y/C	Mini DIN 4-pin (x1), loop-through, with 75 ohms automatic termination	
RGB, Component	BNC (x3), loop-through, with 75 ohms automatic termination	
External sync	BNC (x1), loop-through, with 75 ohms automatic termination	
Audio monitor out	Phono jack (x2) (L, R)	
Speaker (built-in)	1.0 W + 1.0 W (stereo)	
General		
Power requirements	AC 100 V to 240 V, 50/60 Hz, 2.7 A to 1.1 A	AC 100 V to 240 V, 50/60 Hz, 1.5 A to 0.7 A DC 24 V, 5.7 A
Power consumption	Approx. 250 W (max.) (with 2 x BKM-229X)	Approx. 130 W (max.) (with 2 x BKM-229X)
Operating temperature	32°F to 95°F (0°C to 35°C) Recommended: 68°F to 86°F (20°C to 30°C)	
Operating humidity	30% to 85% (no condensation)	
Storage and transport temperature	-4°F to +140°F (-20°C to +60°C)	
Storage and transport humidity	0% to 90%	
Operating, storage, and transport pressure	700 hPa to 1060 hPa	
Dimensions (W x H x D) (with stand)	—	23 3/4 x 19 5/8 x 10 3/4 inches 602.4 x 497.9 x 269.9 mm
Dimensions (W x H x D) (without stand)	40 1/2 x 24 3/8 x 5 1/8 inches 1027.0 x 616.0 x 130.0 mm	23 3/4 x 15 1/4 x 4 3/8 inches 602.4 x 386.2 x 110.0 mm
Weight (with options)	51 lb 13 oz 23.5 kg (with 2 x BKM-229X)	25 lb 6 oz 11.5 kg (with 2 x BKM-229X)
Weight	50 lb 11 oz 23.0 kg	24 lb 4 oz 11.0 kg
Supplied accessories	AC power cord (1), AC plug holder (1), 3D glasses (including case) (2), L/R labels (1), Operating Instructions (1), CD-ROM (1), Using the CD-ROM Manual (1)	

LMD-40/41 Series



LMD-2341W



LMD-2041W



LMD-1541W



LMD-940W

Picture Performance

Panel	a-Si TFT Active Matrix LCD			
Picture size (diagonal)	23 inches 584.2 mm	20 inches 508.0 mm	15 3/8 inches 388.6 mm	9 inches 227.0 mm
Effective picture size (H x V)	20 1/8 x 11 3/8 inches 509.1 x 286.4 mm	17 1/2 x 9 7/8 inches 442.8 x 249.1 mm	13 1/4 x 8 inches 334.1 x 200.5 mm	7 3/4 x 4 5/8 inches 195.0 x 117.0 mm
Resolution (H x V)	1920 x 1080 pixels (Full HD)	1600 x 900 pixels	1280 x 768 pixels (WXGA)	800 x 480 pixels (WVGA)
Aspect	16:9		15:9	
Colors	Approx. 16.7 million colors			
Viewing angle	89°/89°/89°/89° (typical) (up/down/left/right contrast > 10:1)			

Input

Composite	BNC (x1), 1.0 Vp-p ±3 dB sync negative		
SDI	BNC (x2)		BNC (x1)
HDMI	HDMI (x1) (HDCP correspondence)		
Audio	Stereo mini jack (x1), -5 dBu 47 kilohms or higher		
Parallel remote	Modular connector 8-pin (x1) (pin-assignable)		
Serial remote	RJ-45 modular connector (Ethernet) (x1) (10BASE-T/100BASE-TX)		
DC in	XLR-type 4-pin (male) (x1), DC 24 V (output impedance 0.05 ohms or less)	XLR-type 4-pin (male) (x1), DC 12 V (output impedance 0.05 ohms or less)	

Output

Composite	BNC (x1), loop-through, with 75 ohms automatic termination		
SDI	BNC (x1), Output signal amplitude: 800 mVp-p ±10%, Output impedance: 75 ohms unbalanced		
Audio monitor out	Stereo mini jack (x1)		
Speaker (built-in)	1.0 W (mono)		0.5 W (mono)
Headphones output	Stereo mini jack (x1)		

General

Power requirements	AC 100 V to 240 V, 50/60 Hz, 0.8 A to 0.4 A DC 24 V, 2.4 A	AC 100 V to 240 V, 50/60 Hz, 0.8 A to 0.4 A, DC 12 V, 4.4 A	AC 100 V to 240 V, 50/60 Hz, 0.8 A to 0.4 A DC 12 V, 3.4 A	AC 100 V to 240 V, 50/60 Hz, 0.5 A to 0.3 A DC 12 V, 1.9 A
Power consumption	Approx. 70 W (max.)	Approx. 66 W (max.)	Approx. 50 W (max.)	Approx. 27 W (max.)
Operating temperature	32°F to 95°F (0°C to 35°C) Recommended: 68°F to 86°F (20°C to 30°C)			32°F to 104°F (0°C to 40°C) Rec.: 68°F to 86°F (20°C to 30°C)
Operating humidity	30% to 85% (no condensation)			
Storage and transport temperature	-4°F to +140°F (-20°C to +60°C)			
Storage and transport humidity	0% to 90%			
Operating, storage and transport pressure	700 hPa to 1060 hPa			
Dimensions (W x H x D) (with stand)	21 3/4 x 14 5/8 x 6 3/4 inches 549.5 x 370.5 x 171.4 mm (with supplied monitor feet) 21 3/4 x 18 1/2 x 10 3/4 inches 549.5 x 467.4 x 269.9 mm (with optional stand SU-561)	19 x 13 1/8 x 6 3/4 inches 482.6 x 332.8 x 171.4 mm (with supplied monitor feet) 19 x 17 7/8 x 10 3/4 inches 482.6 x 452.0 x 269.9 mm (with SU-561 optional stand)	14 3/4 x 11 1/4 x 6 3/4 inches 373.2 x 283.5 x 171.4 mm (with supplied monitor feet) 14 3/4 x 16 3/4 x 10 3/4 inches 373.2 x 423.9 x 269.9 mm (with optional stand SU-561) 14 3/4 x 12 5/8 x 10 1/2 inches 373.2 x 319.0 x 264.5 mm (with optional stand SU-562)	8 7/8 x 7 1/4 x 6 3/8 inches 222.4 x 183.5 x 161.8 mm (when AC adaptor is attached)
Dimensions (W x H x D) (without stand)	21 3/4 x 14 x 4 inches 549.5 x 352.5 x 100.3 mm	19 x 12 1/2 x 4 inches 482.6 x 314.8 x 100.2 mm	14 3/4 x 10 1/2 x 2 7/8 inches 373.2 x 265.5 x 70.4 mm	8 7/8 x 6 5/8 x 2 7/8 inches 222.4 x 166.0 x 70.0 mm (when AC adaptor is detached)
Weight (with stand)	20 lb 12 oz (9.4 kg) (with supplied monitor feet) 24 lb 15 oz (11.3 kg) (with optional stand SU-561)	15 lb 3 oz (6.9 kg) (with supplied monitor feet) 19 lb 6 oz (8.8 kg) (with optional stand SU-561)	11 lb 11 oz (5.3 kg) (with supplied monitor feet) 15 lb 14 oz (7.2 kg) (with optional stand SU-561) 14 lb 16 oz (6.8 kg) (with optional stand SU-562)	5 lb 12 oz (2.6 kg) (when AC adaptor is installed)
Weight (without stand)	20 lb 4.5 oz (9.2 kg)	14 lb 12 oz (6.7 kg)	11 lb 4.2 oz (5.1 kg)	4 lb 6 oz (2.0 kg)
Supplied accessories	AC power cord (1), AC plug holder (1), Control panel cover (1) (including 3 screws), Monitor foot (2) (including 6 screws), Operating Instructions (1), CD-ROM (1), Using the CD-ROM Manual (1)	AC power cord (1), AC plug holder (1), Mounting bracket (2) (including 8 screws), Monitor foot (2) (including 6 screws), Operating Instructions (1), CD-ROM (1), Using the CD-ROM Manual (1)	AC power cord (1), AC plug holder (1), Monitor foot (2) (including 6 screws), Operating Instructions (1), CD-ROM (1), Using the CD-ROM Manual (1)	AC power cord (1), AC plug holder (1), AC power adaptor (1), Operating Instructions (1), CD-ROM (1), Using the CD-ROM Manual (1)

LMD-30/10 Series



LMD-1530W



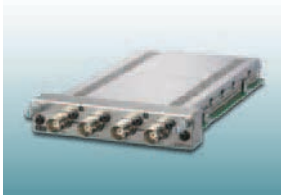
LMD-2110W



LMD-1510W

Picture Performance			
Panel	a-Si TFT Active Matrix LCD		
Picture size (diagonal)	15 3/8 inches 390.0 mm	21 5/8 inches 547.0 mm	15 5/8 inches 395.0 mm
Effective picture size (H x V)	13 1/4 x 7 7/8 inches 334.0 x 200.0 mm	18 7/8 x 10 5/8 inches 477.0 x 268.0 mm	13 5/8 x 7 3/4 inches 344.0 x 194.0 mm
Resolution (H x V)	1280 x 768 pixels (WXGA)	1920 x 1080 pixels (Full HD)	1366 x 768 pixels (WXGA)
Aspect	15:9	16:9	
Colors	Approx. 16.7 million colors		
Viewing angle	89°/89°/89°/89° (typical) (up/down/left/right contrast > 10:1)	170°/160° (typical) (horizontal/vertical contrast > 10:1)	
Input			
Composite	BNC (x1), 1.0 Vp-p ±3 dB sync negative		
Y/C	Mini DIN 4-pin (x1) Y: 1.0 Vp-p ±3 dB sync negative C: 0.286 Vp-p ±3 dB (NTSC burst signal level), 0.3 Vp-p ±3 dB (PAL burst signal level)		
RGB, Component	BNC (x3) RGB: 0.7 Vp-p ±3 dB (Sync On Green, 0.3 Vp-p sync negative) Component: 0.7 Vp-p ±3 dB (75% chrominance standard color bar signal)		
HDMI	HDMI (x1) (HDCP correspondence)		
Audio	Phono jack (x2), -5 dBu 47 kilohms or higher OPTION AUDIO IN: Phono jack (x1), -5 dBu 47 kilohms or higher		
External sync	BNC (x1), 0.3 Vp-p to 4 Vp-p negative polarity binary		
Option in connector	D-sub 9-pin (x1), female		
Parallel remote	Modular connector 8-pin (x1) (pin-assignable)		
Output			
Composite	BNC (x1), loop-through, with 75 ohms automatic termination		
Y/C	Mini DIN 4-pin (x1), loop-through, with 75 ohms automatic termination		
RGB, Component	BNC (x3), loop-through, with 75 ohms automatic termination		
External sync	BNC (x1), loop-through, with 75 ohms automatic termination		
Audio monitor out	Phono jack (x2), loop-through		
Speaker (built-in)	0.5 W (mono)		
General			
Power requirements	AC 100 V to 240 V, 50/60 Hz, 1.0 A to 0.5 A	AC 100 V to 240 V, 50/60 Hz, 1.3 A to 0.6 A	AC 100 V to 240 V, 50/60 Hz, 0.7 A to 0.4 A
Power consumption	Approx. 50 W (max.)	Approx. 69 W (max.)	Approx. 40 W (max.)
Operating temperature	32°F to 95°F (0°C to 35°C) Recommended: 68°F to 86°F (20°C to 30°C)		
Operating humidity	30% to 85% (no condensation)		
Storage and transport temperature	-4°F to +140°F (-20°C to +60°C)		
Storage and transport humidity	0% to 90%		
Operating, storage, and transport pressure	700 hPa to 1060 hPa		
Dimensions (W x H x D) (with stand)	14 3/4 x 13 1/4 x 10 1/2 inches 372.0 x 336.0 x 264.0 mm	20 3/8 x 15 7/8 x 10 1/2 inches 515.0 x 403.0 x 264.0 mm	15 x 12 7/8 x 10 1/2 inches 378.0 x 325.6 x 264.4 mm
Dimensions (W x H x D) (without stand)	14 3/4 x 11 3/8 x 4 inches 372.0 x 288.0 x 100.0 mm	20 3/8 x 14 x 3 1/2 inches 515.0 x 355.0 x 86.0 mm	15 x 11 1/8 x 3 5/8 inches 378.0 x 280.6 x 90.0 mm
Weight	13 lb 5.9 kg	18 lb 15 oz 8.6 kg	12 lb 13 oz 5.8 kg
Weight (without stand)	9 lb 4 oz 4.2 kg	14 lb 19 oz 6.9 kg	9 lb 6 oz 4.1 kg
Supplied accessories	AC power cord (1), AC plug holder (1), Operating Instructions (1), CD-ROM (1), Using the CD-ROM Manual (1)		

Optional Accessories



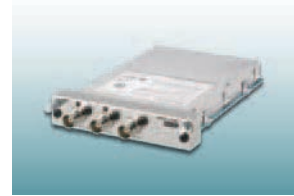
BKM-250TG
3G/HD/SD-SDI Input Adaptor
(for LMD-51 Series)



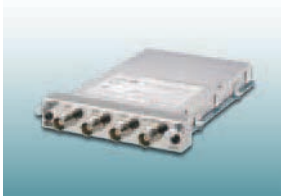
BKM-244CC
HD/SD-SDI Closed Caption
Adaptor (for LMD-51 Series)



BKM-243HS
HD/SD-SDI Input Adaptor
(for LMD-51 Series)



BKM-220D
SD-SDI 4:2:2 Input Adaptor
(for LMD-51 Series)



BKM-229X
Analog Component Adaptor
(for LMD-51 Series)



BKM-227W
NTSC/PAL Input Adaptor
(for LMD-51 Series)



SU-561
Monitor Stand
(for PVM-2541, PVM-1741,
LMD-1751W, LMD-2341W,
LMD-2041W, and LMD-1541W)



SU-562
Monitor Stand
(for LMD-1541W)



MB-529
Mounting Bracket
(for LMD-2110W)



MB-530
Mounting Bracket
(for LMD-1751W)



MB-531
Mounting Bracket
(for PVM-740 and LMD-940W)



MB-532
Mounting Panel
(for PVM-740 and LMD-940W)



MB-534
Mounting Bracket
(for LMD-1541W)



VF-510
ENG Kit (Viewing Hood, Carrying
Handle and Connector Protector)
(for PVM-740 and LMD-940W)



BKM-30G
3D Glasses
(for LMD-4251TD and LMD-2451TD)



BKM-31G
3D Glasses
(for LMD-4251TD and LMD-2451TD)



BKM-320D
SD-SDI Input Adaptor
(for LMD-30/10 Series)



BKM-341HS
HD/SD-SDI Input Adaptor
(for LMD-30/10 Series)



MB-533
Mounting Bracket
(for LMD-1530W)



MB-535
Mounting Bracket
(for LMD-1510W)



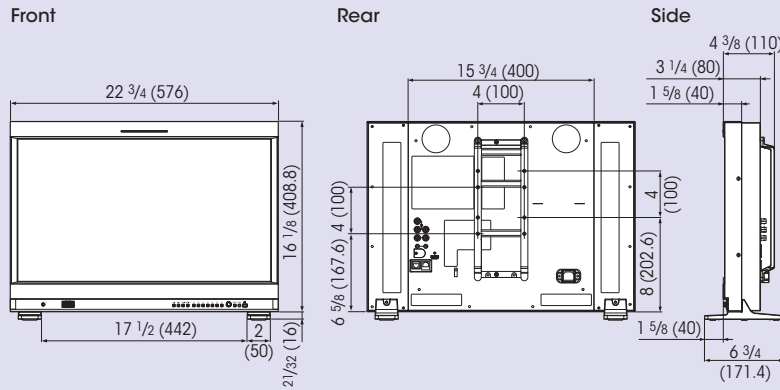
VMM-4SNY
Integrated Test and Measurement Module

Dimensions

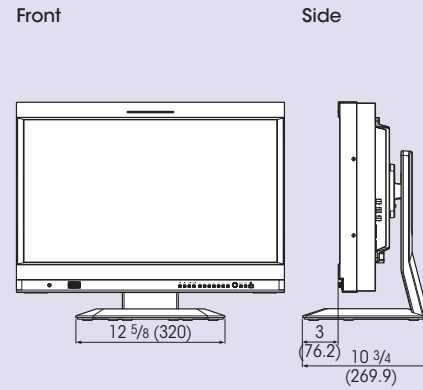
PVM Series

Unit: inches (mm)

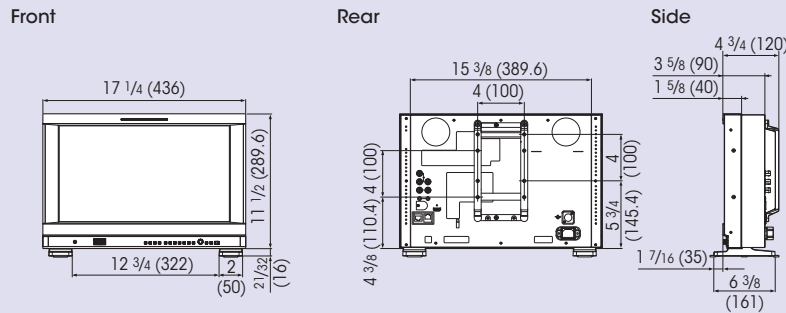
PVM-2541



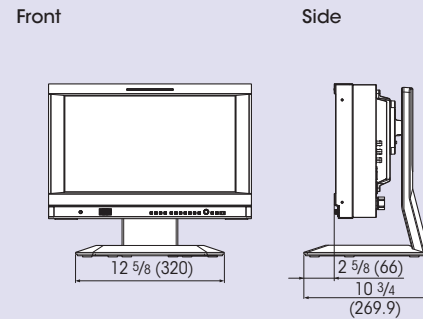
PVM-2541 with the optional SU-561 stand



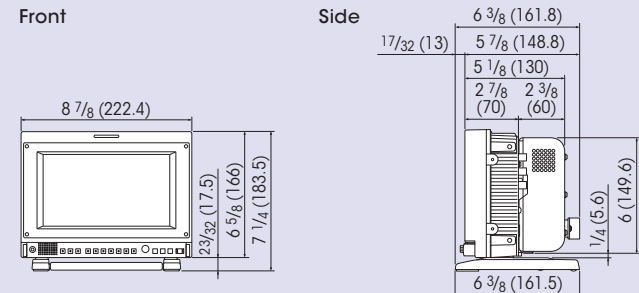
PVM-1741



PVM-1741 with the optional SU-561 stand



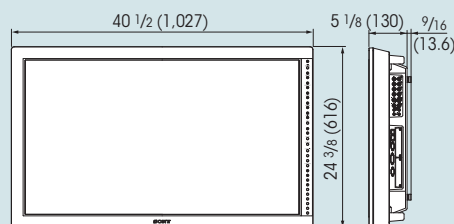
PVM-740



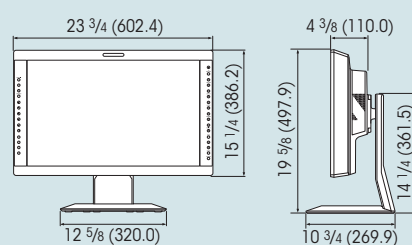
LMD-51 Series

Unit: mm (inches)

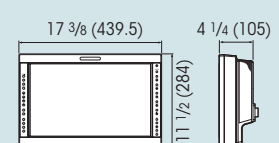
LMD-4251TD



LMD-2451TD/LMD-2451W



LMD-1751W

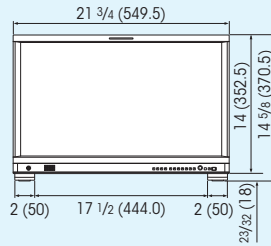


LMD-40/41 Series

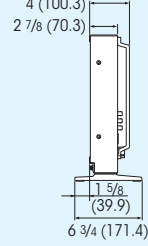
Unit: inches (mm)

LMD-2341W

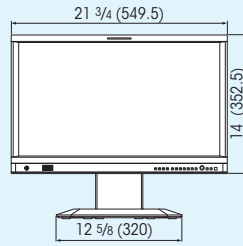
Front with monitor feet



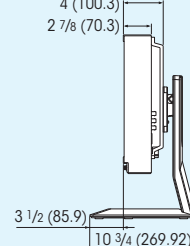
Side with monitor feet



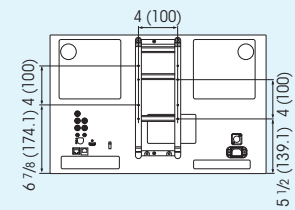
Front with optional SU-561



Side with optional SU-561

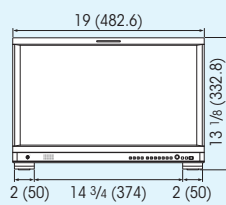


Rear

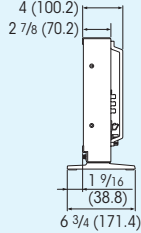


LMD-2041W

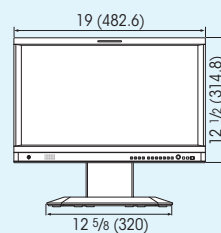
Front with monitor feet



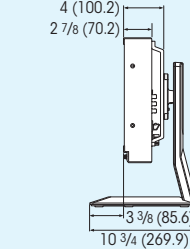
Side with monitor feet



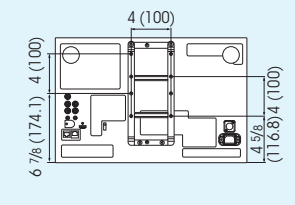
Front with optional SU-561



Side with optional SU-561

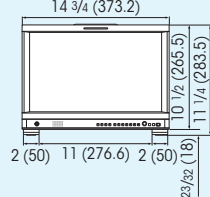


Rear

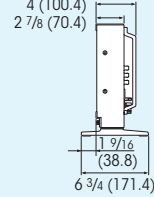


LMD-1541W

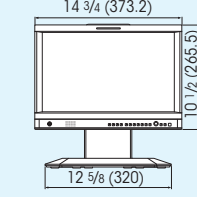
Front with monitor feet



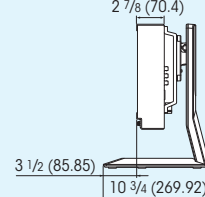
Side with monitor feet



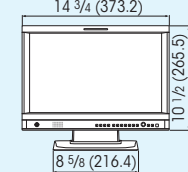
Front with optional SU-561



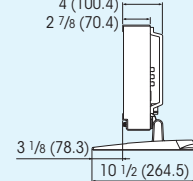
Side with optional SU-561



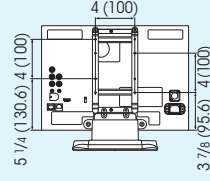
Front with optional SU-562



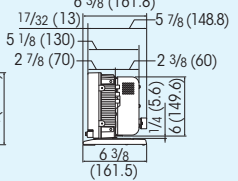
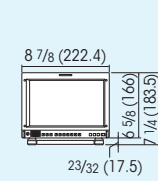
Side with optional SU-562



Rear with optional SU-562

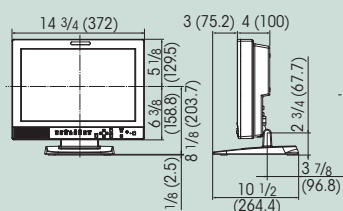


LMD-940W

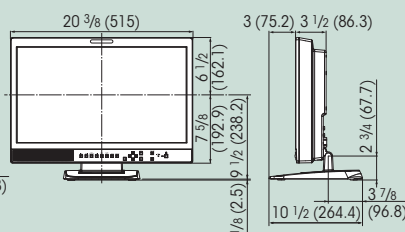


LMD-30/10 Series

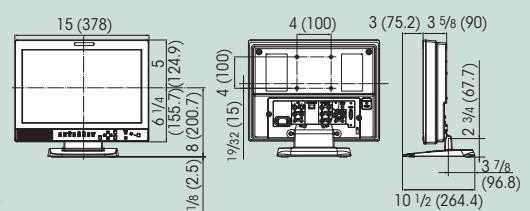
LMD-1530W



LMD-2110W



LMD-1510W



Unit: inches (mm)

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